

Top 100 hits upregulated in T-47D DSG2

Description	Acessions	Organism	KO1 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
UBX domain-containing protein 2A (UBX	P68543	Homo sapiens	8	7	2,98	7,88	0,004	0,015
Thrombospondin-1 (Glycoprotein G)	P07996;P35441; P35442;Q03350	Homo sapiens (Human);Mus musculus	8	7	4,80	27,77	0,000	0,001
Vascular endothelial growth factor receptor 3 (VEGFR-3) (EC 2.7.10.1) (Fms-like tyrosine	P35917	Mus musculus (Mouse)	8	7	3,99	15,85	0,001	0,004
Matrix metalloproteinase-14 (MMP-14) (EC 3.4.24.80) (MMP-X1) (Membrane-type	P50281	Homo sapiens (Human)	8	7	6,88	117,40	0,000	0,000
matrix metalloproteinase 1) (MT-MMP 1)								
Stimulator of interferon genes protein (hSTING) (Endoplasmic reticulum interferon	Q86WV6	Homo sapiens (Human)	8	7	4,08	16,89	0,000	0,000
Chondroitin sulfate N-acetylgalactosaminyltransferase 1	Q8BJQ9;Q8C1F4 ;Q8N6G5	Mus musculus (Mouse);Mus musculus	8	7	3,67	12,73	0,000	0,000
(CsGalNAcT-1) (EC 2.4.1.174) (Chondroitin	O75487	Homo sapiens	8	7	4,21	18,55	0,000	0,000
Glypican-4 (K-glypican) [Cleaved into:	Q8BHH1;Q8NBQ 7	Mus musculus (Mouse);Homo Homo sapiens	8	7	5,43	43,10	0,000	0,000
Aquaporin-11 (AQP-11)		(Human);Mus musculus	8	7	2,76	6,78	0,001	0,005
Ubiquitin-conjugating enzyme E2 D3 (EC 2.3.2.23) ((E3-independent) E2 ubiquitin-	P61077;P61079; P62837;P62838	(Mouse);Homo Homo sapiens	8	7	4,82	28,25	0,000	0,000
conjugating enzyme D3) (EC 2.3.2.24) (E2								
ubiquitin-conjugating enzyme D3)								
1-acyl-sn-glycerol-3-phosphate	O15120	Homo sapiens (Human)	8	7	7,59	193,29	0,000	0,000
acyltransferase beta (EC 2.3.1.51) (1-								
acylglycerol-3-phosphate O-acyltransferase								
Cartilage matrix protein (Matrilin-1)	P21941;P51942	Homo sapiens (Human);Mus	8	7	3,91	15,01	0,001	0,003
Cytosolic purine 5'-nucleotidase (EC 3.1.3.5)	P49902	Homo sapiens (Human)	8	7	3,11	8,65	0,000	0,000
(EC 3.1.3.99) (Cytosolic 5'-nucleotidase II)								
(cN-II) (Cytosolic IMP/GMP-specific 5'-	P78382;Q61420	Homo sapiens (Human);Mus	8	7				
CMP-sialic acid transporter (CMP-SA-Tr)								
(CMP-Sia-Tr) (CST) (Solute carrier family 35								

Acyl-CoA synthetase short-chain family member 3, mitochondrial (EC 6.2.1.1) (Acetate--CoA ligase 3) (Acyl-CoA	Q9H6R3	Homo sapiens (Human)	8	7	3,87	14,60	0,000	0,000
Centrosomal protein of 131 kDa (5-azacytidine-induced protein 1) (Pre-	Q62036;Q9UPN4	Mus musculus (Mouse);Homo	8	7	3,17	8,99	0,000	0,000
Zinc finger protein 761	Q86XN6;Q8N782	Homo sapiens (Human);Homo	8	7	3,78	13,76	0,001	0,004
DNA damage-binding protein 2 (Damage-	Q99J79	Mus musculus	8	7	3,18	9,07	0,006	0,018
G-protein-signaling modulator 1 (Activator	Q86YR5	Homo sapiens	8	7	2,84	7,15	0,000	0,000
Adenosine 3'-phospho 5'-phosphosulfate transporter 2 (3'-phosphoadenosine 5'-	Q9H1N7	Homo sapiens (Human)	8	7	3,27	9,65	0,000	0,002
Proteasome subunit beta type-4 (26 kDa prosomal protein) (HsBPROS26) (PROS-26)	P28070	Homo sapiens (Human)	8	7	4,18	18,09	0,000	0,001
(Macropain beta chain) (Multicatalytic								
Zinc finger CCCH-type antiviral protein 1	Q7Z2W4;Q8BZ20;Q9H0J9	Homo sapiens (Human);Mus musculus	8	7	5,31	39,77	0,000	0,000
(ADP-ribosyltransferase diphtheria toxin-like 13) (ARTD13) (Inactive Poly [ADP-Uridine diphosphate glucose								
pyrophosphatase NUDT14 (UDPG	O95848	Homo sapiens (Human)	8	7	4,09	17,02	0,000	0,000
pyrophosphatase) (UGPPase) (EC 3.6.1.45)								
Very long chain fatty acid elongase 7 (EC 2.3.1.199) (3-keto acyl-CoA synthase	A1L3X0	Homo sapiens (Human)	8	7	2,93	7,61	0,003	0,012
ELOVL7) (ELOVL fatty acid elongase 7)								
(ELOVL FA elongase 7) (Elongation of very								
Queuosine 5'-phosphate N-	Q5T6V5	Homo sapiens (Human)	8	7	5,73	52,94	0,000	0,000
glycosylase/hydrolase (EC 3.2.2.-) (Q-								
Complement C4-A (Acidic complement C4)	POC0L4;POC0L5	Homo sapiens (Human);Homo	8	7	2,85	7,21	0,001	0,004
(C3 and PZP-like alpha-2-macroglobulin								
Sigma non-opioid intracellular receptor 1								
(Aging-associated gene 8 protein) (SR31747-	Q99720	Homo sapiens (Human)	8	7	3,05	8,26	0,001	0,004
binding protein) (SR-BP) (Sigma 1-type								
Nephronectin (Preosteoblast EGF-like	Q6UXI9	Homo sapiens (Human)	8	7	2,20	4,60	0,001	0,006
repeat protein with MAM domain) (Protein								

Interferon-induced transmembrane protein 3 (Dispanin subfamily A member 2b)	Q01628	Homo sapiens (Human)	8	7	4,22	18,58	0,000	0,000
CCN family member 1 (3CH61) (Cellular communication network factor 1) (Cysteine-rich angiogenic inducer 61) (Insulin-like Protein O-mannosyl-transferase 2 (EC 2.4.1.109) (Dolichyl-phosphate-mannose--ATP-binding cassette sub-family G member 1 (EC 7.6.2.-) (ATP-binding cassette	P18406	Mus musculus (Mouse)	8	7	4,66	25,27	0,000	0,000
Melanotransferrin (Melanoma-associated Tubulin alpha-3E chain (EC 3.6.5.-) (Alpha-tubulin 3E) [Cleaved into: Detyrosinated Ceroid-lipofuscinosis neuronal protein 6	Q9UKY4	Homo sapiens (Human)	8	7	2,19	4,57	0,002	0,009
Neurogenic locus notch homolog protein 2 (Notch 2) (Motch B) [Cleaved into: Notch 2 extracellular truncation	P45844;Q64343	Homo sapiens (Human);Mus	8	7	3,18	9,06	0,001	0,003
Cysteine-rich protein 1 (CRP-1) (Cysteine-rich heart protein) (CRHP) (hCRHP)	P08582	Homo sapiens (Human)	8	7	2,51	5,70	0,001	0,004
Polyprenol reductase (EC 1.3.1.94) (3-oxo-5-alpha-steroid 4-dehydrogenase 3) (EC 1.3.1.22) (Steroid 5-alpha-reductase 2-like)	Q6PEY2	Homo sapiens (Human)	8	7	2,57	5,94	0,001	0,004
Monoacylglycerol lipase ABHD6 (EC 3.1.1.23) (2-arachidonoylglycerol hydrolase)	Q9NWW5	Homo sapiens (Human)	8	7	3,44	10,89	0,000	0,002
Protein shisa-2 homolog (Transmembrane protein 46)	O35516;P46531;Q04721;Q9UM47	Mus musculus (Mouse);Homo sapiens	8	7	2,72	6,58	0,000	0,003
CKLF-like MARVEL transmembrane domain-containing protein 6 (Chemokine-like factor	P50238	Homo sapiens (Human)	8	7	2,42	5,36	0,000	0,002
RNA-binding protein FXR1 (FMR1 autosomal homolog 1) (hFXR1p)	Q9H8P0	Homo sapiens (Human)	8	7	2,14	4,42	0,002	0,007
HMG domain-containing protein 3 (HMG Sodium-coupled neutral amino acid symporter 2 (Amino acid transporter A2) (Solute carrier family 38 member 2)	Q9BV23	Homo sapiens (Human)	8	7	2,47	5,53	0,002	0,008
	Q6UWI4;Q8QZV2	Homo sapiens (Human);Mus	8	7	1,36	2,56	0,003	0,010
	Q9NX76	Homo sapiens (Human)	8	7	3,99	15,86	0,000	0,000
	P51114;P51116;Q61584	Homo sapiens (Human);Homo sapiens	8	7	3,91	14,99	0,002	0,008
	Q12766	Homo sapiens	8	7	3,03	8,15	0,000	0,003
	Q8CFE6;Q96QD8	Mus musculus (Mouse);Homo sapiens (Human)	8	7	2,30	4,91	0,004	0,014

Methyltransferase-like 26	Q96S19;Q9DCS2	Homo sapiens (Human);Mus	8	7	2,37	5,18	0,001	0,006
Radial spoke head protein 4 homolog A	Q5TD94	Homo sapiens	8	7	2,41	5,33	0,001	0,006
NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial (Complex I-9kD) (CI-9kD) (NADH-ubiquinone	P56181	Homo sapiens (Human)	8	7	2,81	7,03	0,001	0,005
Rab-like protein 2B	Q9UNT1	Homo sapiens	8	7	2,00	3,99	0,000	0,002
Type II inositol 1,4,5-trisphosphate 5-phosphatase (EC 3.1.3.36) (75 kDa inositol	P32019	Homo sapiens (Human)	8	7	2,22	4,67	0,006	0,018
G patch domain-containing protein 2	Q9NW75	Homo sapiens	8	7	2,70	6,51	0,000	0,000
Tumor suppressor candidate gene 1 protein	Q2TAM9	Homo sapiens	8	7	3,55	11,69	0,000	0,000
Transmembrane protein 131-like	A2VDJ0	Homo sapiens	8	7	3,24	9,47	0,000	0,001
Mediator of RNA polymerase II transcription subunit 14 (Cofactor required for Sp1 transcriptional activation subunit 2) (CRSP complex subunit 2) (Mediator	A2ABV5	Mus musculus (Mouse)	8	7	2,26	4,79	0,001	0,003
Pleckstrin-2	Q9NYT0	Homo sapiens	8	7	3,07	8,41	0,000	0,000
Torsin-2A (Torsin family 2 member A) (Torsin-related protein 1)	Q5JU69;Q8R1J9	Homo sapiens (Human);Mus	8	7	1,97	3,92	0,008	0,023
Plexin-A2 (Semaphorin receptor OCT)	O75051;P51805;P70206;Q9UIW2	Homo sapiens (Human);Homo sapiens	8	7	4,41	21,23	0,001	0,004
Putative methyltransferase C9orf114 (EC 2.1.1.-) (Centromere protein 32) (CENP-32)	Q5T280	Homo sapiens (Human)	8	7	2,34	5,06	0,000	0,002
Thrombospondin-1 (Glycoprotein G)	P07996;P35441;P35442;P49746;Q03350;Q05895	Homo sapiens (Human);Mus musculus (Mouse);Homo sapiens	8	7	3,58	11,98	0,000	0,000
Amine oxidase [flavin-containing] A (EC 1.4.3.21) (EC 1.4.3.4) (Monoamine oxidase	P21397;P27338	Homo sapiens (Human);Homo	8	7	5,35	40,74	0,000	0,000
Y+L amino acid transporter 2 (Cationic amino acid transporter, y+ system) (Solute	Q92536	Homo sapiens (Human)	8	7	1,92	3,80	0,004	0,015
Alpha-L-iduronidase (EC 3.2.1.76)	P35475	Homo sapiens	8	7	1,90	3,74	0,000	0,000

2-(3-amino-3-carboxypropyl)histidine synthase subunit 2 (Diphthamide biosynthesis protein 2) (Diphtheria toxin	Q9BQC3;Q9CR25	Homo sapiens (Human);Mus musculus	8	7	3,50	11,33	0,001	0,004
Microtubule-associated protein 9 (Aster-E3 ubiquitin-protein ligase TRIM34 (EC	Q49MG5	Homo sapiens	8	7	2,69	6,44	0,000	0,000
2.3.2.27) (Interferon-responsive finger	Q9BYJ4	Homo sapiens (Human)	8	7	5,02	32,50	0,000	0,000
Zinc finger protein 581	Q9P0T4	Homo sapiens	8	7	2,05	4,15	0,003	0,011
Distal membrane-arm assembly complex	Q96GE9	Homo sapiens	8	7	2,61	6,09	0,000	0,001
Beta-secretase 1 (EC 3.4.23.46) (Aspartyl protease 2) (ASP2) (Asp 2) (Beta-site	P56817;P56818	Homo sapiens (Human);Mus musculus	8	7	3,27	9,64	0,002	0,007
amyloid precursor protein cleaving enzyme	Q9D1R2	Mus musculus	8	7	1,90	3,72	0,000	0,003
Protein KTI12 homolog	P07996;P35441;P35442	Homo sapiens (Human);Mus musculus	8	7	3,13	8,78	0,000	0,000
Thrombospondin-1 (Glycoprotein G)	Q96B21	Homo sapiens	8	7	2,25	4,77	0,000	0,000
Transmembrane protein 45B	P97314	Mus musculus (Mouse)	8	7	3,20	9,18	0,000	0,000
Cysteine and glycine-rich protein 2 (Cysteine-rich protein 2) (CRP2) (Double	Q9NRX4	Homo sapiens (Human)	8	7	1,83	3,57	0,000	0,001
14 kDa phosphohistidine phosphatase (EC 3.9.1.3) (Phosphohistidine phosphatase 1)	P50443	Homo sapiens	8	7	2,93	7,60	0,000	0,000
Sulfate transporter (Diastrophic dysplasia	Q96E52	Homo sapiens (Human)	8	7	2,71	6,55	0,000	0,000
Metalloendopeptidase OMA1, mitochondrial (EC 3.4.24.-)	P07361;Q60590	Mus musculus (Mouse);Mus	8	7	3,81	14,04	0,000	0,000
Alpha-1-acid glycoprotein 2 (AGP 2) (Orosomucoid-2) (OMD 2)	P70365;Q15788	Mus musculus (Mouse);Homo	8	7	2,34	5,08	0,006	0,020
Nuclear receptor coactivator 1 (NCoA-1) (EC 2.3.1.48) (Nuclear receptor coactivator	Q9H1U9	Homo sapiens (Human)	8	7	2,76	6,77	0,000	0,001
Mitochondrial nicotinamide adenine dinucleotide transporter SLC25A51 (Mitochondrial NAD(+) transporter	Q9DBT4;Q9Y227	Mus musculus (Mouse);Homo sapiens (Human)	8	7	2,24	4,72	0,001	0,006
Ectonucleoside triphosphate diphosphohydrolase 4 (NTPDase 4) (EC 3.6.1.15) (EC 3.6.1.6) (Lysosomal apyrase-								

FH1/FH2 domain-containing protein 3 (Formin homolog overexpressed in spleen	Q76LL6	Mus musculus (Mouse)	8	7	3,43	10,77	0,000	0,000
Ropporin-1-like protein (ROPN1-like	Q96C74	Homo sapiens	8	7	2,98	7,90	0,001	0,003
StAR-related lipid transfer protein 5 (START	Q9NSY2	Homo sapiens	8	7	1,96	3,90	0,000	0,002
Folliculin-interacting protein 1	Q8TF40;Q9P278	Homo sapiens (Human);Homo	8	7	1,77	3,40	0,006	0,020
Tenascin (TN) (Cytotactin) (GMEM) (GP 150- 225) (Glioma-associated-extracellular	P24821	Homo sapiens (Human)	8	7	5,94	61,54	0,000	0,000
SHC SH2 domain-binding protein 1	Q8NEM2	Homo sapiens	8	7	2,53	5,76	0,001	0,005
Programmed cell death protein 6	O75340	Homo sapiens	8	7	2,86	7,25	0,000	0,000
Guanylate-binding protein 7 (EC 3.6.1.-) (EC 3.6.5.-) (GTP-binding protein 7) (GBP-7)	Q91Z40;Q96PP9	Mus musculus (Mouse);Homo	8	7	2,41	5,32	0,007	0,020
DnaJ homolog subfamily C member 25	Q9H1X3	Homo sapiens	8	7	2,90	7,49	0,001	0,006
WD repeat-containing protein 54	Q9H977	Homo sapiens	8	7	1,97	3,93	0,000	0,003
Uridine-cytidine kinase 1 (UCK 1) (EC 2.7.1.48) (Cytidine monophosphokinase 1)	Q9HA47	Homo sapiens (Human)	8	7	2,95	7,71	0,000	0,001
Insulin-like growth factor-binding protein- like 1 (IGFBP-related protein 10) (Insulin- PDZ domain-containing protein GIPC2	Q8WX77	Homo sapiens (Human)	8	7	3,24	9,46	0,000	0,000
(SemaF cytoplasmic domain-associated	Q9Z2H7	Mus musculus (Mouse)	8	7	2,41	5,30	0,001	0,003
Intraflagellar transport protein 70B (Tetratricopeptide repeat protein 30B) (TPR	Q8N4P2	Homo sapiens (Human)	8	7	1,90	3,73	0,000	0,002
Beta-hexosaminidase subunit alpha (EC 3.2.1.52) (Beta-N-acetylhexosaminidase	P06865	Homo sapiens (Human)	8	7	2,64	6,22	0,000	0,000
Thrombospondin-1 (Glycoprotein G)	P07996;P35441	Homo sapiens (Human);Mus	8	7	2,52	5,72	0,000	0,000
Galactose-1-phosphate uridylyltransferase (Gal-1-P uridylyltransferase) (EC 2.7.7.12)	P07902	Homo sapiens (Human)	8	7	2,00	3,99	0,000	0,001
C-type lectin domain family 2 member B (Activation-induced C-type lectin) (C-type	Q92478	Homo sapiens (Human)	8	7	5,94	61,36	0,000	0,000
Integrin alpha-2 (CD49 antigen-like family member B) (Collagen receptor) (Platelet	P17301;Q62469	Homo sapiens (Human);Mus	8	7	3,38	10,43	0,000	0,002
TBC1 domain family member 13	Q9NVG8	Homo sapiens	8	7	1,18	2,27	0,006	0,019
cAMP-dependent protein kinase catalytic	P17612	Homo sapiens	8	7	1,79	3,46	0,002	0,007

Polyprenol reductase (EC 1.3.1.94) (3-oxo-5-alpha-steroid 4-dehydrogenase 3) (EC 1.3.1.22) (Steroid 5-alpha-reductase 2-like)	Q9H8P0;Q9WUP4	Homo sapiens (Human);Mus musculus	8	7	2,28	4,87	0,004	0,013
Transmembrane protein 208	Q9BTX3	Homo sapiens	8	7	2,47	5,53	0,000	0,000
Collagen alpha-1(XII) chain	Q99715	Homo sapiens	8	7	2,02	4,06	0,000	0,000

**T-47D DSG2 KO#1 tumor
xenografts compared to WT**

Description	Acessions	Organism	KO1 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
Desmoglein-2	O55111	Mus musculus (Mouse)	8	7	-6,81	0,01	0,000	0,000
Desmoglein-2 (Cadherin family type 1 class E member 1) enzyme (NADP-ME) (EC 1.1.1.40) (Melanoma-asso- ciated antigen	Q14126;Q14126-cRAP P06801;Q16798	Homo sapiens (Human);Homo Mus musculus (Mouse);Homo sapiens (Human)	8	7	-6,36	0,01	0,000	0,000
E1 (Alpha-dystrobrevin- associated MAGE Protein)	Q6PCZ4	Mus musculus (Mouse)	8	7	-5,99	0,02	0,000	0,000
Carcinoembryonic antigen- related cell adhesion molecule 5 (Carcinoembryonic antigen) myeloid homologue-inducible	P06731;P40199	Homo sapiens (Human);Homo sapiens (Human)	8	7	-5,81	0,02	0,000	0,000
hepatic protein (Spot 14 protein) (S14) (SPOT14)	Q62264	Mus musculus (Mouse)	8	7	-5,41	0,02	0,000	0,000
Pleckstrin homology domain- containing family H member 3 (PH domain-containing family	Q8VCE9	Mus musculus (Mouse)	8	7	-5,34	0,02	0,000	0,000
Glutathione S-transferase A3 (EC 2.5.1.18) (GST class-alpha member 3) (Glutathione S-	P30115;Q16772	Mus musculus (Mouse);Homo sapiens (Human)	8	7	-5,27	0,03	0,001	0,004
Perilipin-1 (Lipid droplet- Phosphoenolpyruvate	O60240;Q8CGN5	Homo sapiens (Human);Mus	8	7	-5,21	0,03	0,000	0,002
carboxykinase, cytosolic [GTP] (PEPCK-C) (EC 4.1.1.32) (Serine-	Q9Z2V4	Mus musculus (Mouse)	8	7	-5,14	0,03	0,000	0,000
Macrophage galactose N-acetyl- galactosamine specific lectin 2	A9XX86	Mus musculus (Mouse)	8	7	-5,13	0,03	0,000	0,000
Major urinary protein 17 (MUP	B5X0G2	Mus musculus (Mouse)	8	7	-5,10	0,03	0,000	0,000
Major urinary protein 2 (MUP mucoglycoprotein N-	P11589	Mus musculus (Mouse)	8	7	-5,05	0,03	0,000	0,000
methyltransferase (Indolamine N-methyltransferase) (EC 2.1.1.49) (EC 2.1.1.96)	P40936	Mus musculus (Mouse)	8	7	-4,95	0,03	0,000	0,000
(Aromatic alkylamine N- methyltransferase) (Amine N- methyltransferase) 3) (Non-group 1/group 2 MUP15)	P04939	Mus musculus (Mouse)	8	7	-4,90	0,03	0,000	0,001

Aldehyde dehydrogenase, cytosolic 1 (EC 1.2.1.3) (ALDH class 1) (ALDH-E1) (ALHDII) (Aldehyde dehydrogenase	O35945	Mus musculus (Mouse)	8	7	-4,87	0,03	0,000	0,000
Ezrin (Cytovillin) (Villin-2) (p81)	P15311;P26040;P26043;P35241	Homo sapiens (Human);Mus musculus (Mouse);Mus musculus (Mouse);Homo	8	7	-4,83	0,04	0,006	0,018
Claudin-5 (Clostridium perfringens enterotoxin receptor 2) (CPE R2) (CPE	Q9Z0G9	Mus musculus (Mouse)	8	7	-4,83	0,04	0,001	0,003
Perilipin-1 (Lipid droplet-associated protein) (Perilipin A)	Q8CGN5	Mus musculus (Mouse)	8	7	-4,76	0,04	0,000	0,001
Carboxylesterase 1F (EC 3.1.1.1) (Carboxylic ester hydrolase) (Triacylglycerol	Q91WU0	Mus musculus (Mouse)	8	7	-4,72	0,04	0,000	0,001
Fibulin-7 (FIBL-7) (Protein	Q501P1	Mus musculus (Mouse)	8	7	-4,70	0,04	0,000	0,000
Patatin-like phospholipase domain-containing protein 2 (EC 3.1.1.3) (Adipose triglyceride lipase) (Calcium-	Q8BJ56	Mus musculus (Mouse)	8	7	-4,63	0,04	0,000	0,000
Aldo-keto reductase family 1, UDP-glucuronosyltransferase	Q3UXL1	Mus musculus (Mouse)	8	7	-4,62	0,04	0,000	0,000
Kelch domain-containing	K9J7B2	Mus musculus (Mouse)	8	7	-4,58	0,04	0,000	0,002
Glutathione S-transferase A3 (EC 2.5.1.18) (GST class-alpha member 3) (Glutathione S-	P30115	Mus musculus (Mouse)	8	7	-4,56	0,04	0,000	0,000
Neuroplastin (Stromal cell-derived receptor 1) (SDR-1)	P97300	Mus musculus (Mouse)	8	7	-4,54	0,04	0,003	0,011
Beta-galactosidase-1-like	Q3UPY5	Mus musculus (Mouse)	8	7	-4,49	0,04	0,000	0,000
Kelch domain-containing	A2APT9	Mus musculus (Mouse)	8	7	-4,48	0,04	0,000	0,003
Deoxyribonuclease-1-like 1 (EC 3.1.21.-) (DNase X)	P49184	Homo sapiens (Human)	8	7	-4,45	0,05	0,000	0,000
(Deoxyribonuclease I-like 1)								
Resistin (Adipose tissue-specific secretory factor) (ADSF) (Adipose-specific cysteine-rich secreted protein	Q99P87	Mus musculus (Mouse)	8	7	-4,41	0,05	0,000	0,000

ribosomal protein S6 kinase alpha-3 (S6K-alpha-3) (EC 2.7.11.1) (90 kDa ribosomal protein S6 kinase 3) (p90-RSK 3) (p90RSK3) (MAP kinase- activated protein kinase 1b) (MAPK-activated protein kinase)	P18654;P51812;Q9UK32	Mus musculus (Mouse);Homo sapiens (Human);Homo sapiens (Human)	8	7	-4,35	0,05	0,000	0,002
Glutathione S-transferase Mu 2 (EC 2.5.1.18) (GST 5-5) (GST class-mu 2) (Glutathione S- Spondin-2 (Mindin) fatty acid-binding protein, adipocyte (3T3-L1 lipid-binding protein) (Adipocyte lipid- binding protein) (ALBP) (Adipocyte-type fatty acid- binding protein) (A-FABP) (AFABP) (Fatty acid binding protein)	P15626;Q80W21;Q8R516 Q8BMS2	Mus musculus (Mouse);Mus musculus (Mouse);Mus musculus (Mouse)	8	7	-4,34	0,05	0,003	0,012
Guanylate-binding protein 8 ATP-binding cassette sub- family A member 6 (EC 7.6.2.-) peroxisomal membrane protein 11A (HsPEX11p) (28 kDa peroxisomal integral membrane protein) (PMP28) (Peroxin-11A) (Peroxisomal hydroxyacyl-CoA lyase) amidohydrolase (carboxylate- forming) (EC 3.5.1.114) (Acylase III) (Aminoacylase III) (AAIII) (Aminoacylase-3) (ACY- 2) (Hydroxyacylase) (Aminoacylase- containing protein 3, mitochondrial)	Q2V6D6;Q8BTS3 Q8K441 O75192;Q9Z211 Q91XE4	Mus musculus (Mouse);Mus musculus (Mouse) Homo sapiens (Human);Mus musculus (Mouse)	8 8 8	7 7 7	-4,20 -4,18 -4,16	0,05 0,06 0,06	0,000 0,000 0,000	0,001 0,000 0,001
Galectin-12 (Gal-12) Cholinesterase (EC 3.1.1.8) (Acylcholine acylhydrolase) (Butyrylcholine esterase) E3 ubiquitin-protein ligase parkin (EC 2.3.2.31) (Parkin RBR E3 ubiquitin-protein ligase)	Q91VD1 Q03311 Q9WVS6	Mus musculus (Mouse) Mus musculus (Mouse) Mus musculus (Mouse) Mus musculus (Mouse)	8 8 8 8	7 7 7 7	-4,12 -4,12 -4,11 -4,05	0,06 0,06 0,06 0,06	0,000 0,000 0,000 0,002	0,002 0,002 0,000 0,009

polyunsaturated fatty acid lipoxygenase ALOX15 (12/15- lipoxygenase) (12/15-LO) (Arachidonate 12-lipoxygenase, leukocyte-type) (12-LOX) (L- 12LO) (EC 1.13.11.31) (Arachidonate 15- lipoxygenase) (15-LOX) (EC 1.13.11.32) (Arachidonate ABC-type organic anion transporter ABCA8B (EC 7.6.2.-) (ATP-binding cassette sub- Opioid-binding protein/cell adhesion molecule (OBCAM) (OPCML) (Opioid-binding cell 3-ketoacyl-CoA thiolase B, peroxisomal (EC 2.3.1.155) (EC 2.3.1.16) (EC 2.3.1.9) (Acetyl- CoA acyltransferase B) (Beta- Maturin (Maturin neural progenitor differentiation regulator protein homolog) Retinoid-binding protein 7 (Cellular retinoic acid-binding protein 4) (CRABP4) (CRBP4) ATP-binding cassette sub- family D member 2 (EC 3.1.2.-) (EC 7.6.2.-) FLUORIDE DEHYDROGENASE dehydrogenase, mitochondrial (NCD) (Neutral ceramidase Neutral ceramidase (N-CDase) (NCDase) (EC 3.5.1.-) (EC 3.5.1.23) (Acylsphingosine deacylase 2) (N- Gamma-synuclein (Persyn) CUB domain-containing protein 1 (Membrane glycoprotein gp140) (Transmembrane and	P39654	Mus musculus (Mouse)	8	7	-4,05	0,06	0,000	0,000
	Q8K440	Mus musculus (Mouse)	8	7	-4,04	0,06	0,000	0,000
	Q14982	Homo sapiens (Human)	8	7	-4,04	0,06	0,006	0,020
	Q8VCHO	Mus musculus (Mouse)	8	7	-4,02	0,06	0,001	0,004
	Q8N3F0	Homo sapiens (Human)	8	7	-4,01	0,06	0,000	0,001
	Q9EPC5	Mus musculus (Mouse)	8	7	-4,01	0,06	0,000	0,000
	Q61285	Mus musculus (Mouse)	8	7	-4,00	0,06	0,000	0,001
	Q7TNG8	Mus musculus (Mouse)	8	7	-4,00	0,06	0,000	0,000
	Q9JHE3	Mus musculus (Mouse)	8	7	-3,94	0,07	0,000	0,000
	Q9Z0F7	Mus musculus (Mouse)	8	7	-3,90	0,07	0,000	0,000
	Q5U462	Mus musculus (Mouse)	8	7	-3,84	0,07	0,000	0,001

tumor necrosis factor receptor superfamily member 16 (Low affinity neurotrophin receptor p75NTR) (Low-affinity nerve growth factor receptor) (NGF receptor) (Low-affinity nerve growth factor receptor p75NTR) (Low-affinity nerve growth factor receptor)	Q9Z0W1	Mus musculus (Mouse)	8	7	-3,84	0,07	0,000	0,000
cGMP-inhibited 3',5'-cyclic phosphodiesterase 3B (EC 3.1.4.17) (CGIPDE1) (Cyclic Cathepsin L2 (EC 3.4.22.43) (Cathepsin U) (Cathepsin V) Glycerol-3-phosphate acyltransferase 3 (GPAT-3) (EC 2.3.1.15) (1-acyl-sn-glycerol-3- phosphate O-acyltransferase 10) (AGPAT 10) (1-acyl-sn- glycerol-3-phosphate O- acyltransferase 9) (1-AGP acyltransferase 9) (1-AGPAT 9) (EC 2.3.1.51) (Acyl-CoA:glycerol- 3-phosphate acyltransferase 3) Hydroxyacid-oxoacid transhydrogenase, mitochondrial (HOT) (EC 1.1.99.24) (Alcohol Hormone-sensitive lipase (HSL) (EC 3.1.1.79) (Monoacylglycerol lipase LIPE) Scavenger receptor class A C-type lectin domain family 12 member A (C-type lectin-like molecule 1) (CLL-1) (Myeloid inhibitory C-type lectin-like Ketimine reductase mu- crystallin (EC 1.5.1.25) (NADP- regulated thyroid-hormone-	Q61409;Q9Z0X4	Mus musculus (Mouse);Mus musculus (Mouse)	8	7	-3,80	0,07	0,000	0,002
	O60911	Homo sapiens (Human)	8	7	-3,80	0,07	0,000	0,002
	Q53EU6;Q8C0N2	Homo sapiens (Human);Mus musculus (Mouse)	8	7	-3,77	0,07	0,001	0,004
	Q8R0N6	Mus musculus (Mouse)	8	7	-3,77	0,07	0,000	0,000
	P54310	Mus musculus (Mouse)	8	7	-3,73	0,08	0,000	0,000
	Q8K299	Mus musculus (Mouse)	8	7	-3,72	0,08	0,000	0,000
	Q504P2	Mus musculus (Mouse)	8	7	-3,71	0,08	0,004	0,014
	Q14894	Homo sapiens (Human)	8	7	-3,68	0,08	0,000	0,000

Suppressor of tumorigenicity 14 protein homolog (EC 3.4.21.100) (Fibritin) (Fibronectin)	P56677	Mus musculus (Mouse)	8	7	-3,67	0,08	0,000	0,000
Extracellular matrix protein 1 (Secretory component p85)	Q16610	Homo sapiens (Human)	8	7	-3,66	0,08	0,001	0,003
EF-hand domain-containing protein D1 (EF-hand domain-containing protein 1)	Q9D4J1	Mus musculus (Mouse)	8	7	-3,66	0,08	0,000	0,001
Ankyrin repeat domain 29	D3YVV3	Mus musculus (Mouse)	8	7	-3,65	0,08	0,000	0,001
Pancreatic secretory granule membrane major glycoprotein GP2 (Pancreatic zymogen Carboxylesterase 1D (Carboxylesterase 3) (EC 3.1.1.1, EC 3.1.1.67) (Fatty acid ethyl ester synthase) (FAEE	P55259	Homo sapiens (Human)	8	7	-3,64	0,08	0,000	0,002
Matrix Gla protein (MGP)	Q8VCT4	Mus musculus (Mouse)	8	7	-3,63	0,08	0,001	0,003
Mitofusin-2 (EC 3.6.5.-) (Hypertension-related protein 1) (Mitochondrial assembly regulatory factor) (HSG	P19788	Mus musculus (Mouse)	8	7	-3,62	0,08	0,000	0,002
MAPK-regulated corepressor-interacting protein 1 (Protein FAM110B)	Q80U63	Mus musculus (Mouse)	8	7	-3,61	0,08	0,000	0,000
Putative testis-expressed CDK3 and ABL1 enzyme substrate 1 (Interactor with CDK3 and ABL1)	Q3UGS4	Mus musculus (Mouse)	8	7	-3,61	0,08	0,000	0,000
Claudin-14	A0A0J9YWL9	Homo sapiens (Human)	8	7	-3,60	0,08	0,000	0,001
Perilipin-4 (Adipocyte protein	Q8TDN4	Homo sapiens (Human)	8	7	-3,60	0,08	0,000	0,000
Predicted gene 10024	O95500	Homo sapiens (Human)	8	7	-3,58	0,08	0,000	0,000
Heme-binding protein 2	O88492	Mus musculus (Mouse)	8	7	-3,58	0,08	0,000	0,000
Myelin basic protein (MBP)	A0A0A0MQA4;J3KMP7;J3QK64	Mus musculus (Mouse);Mus musculus (Mouse);Mus musculus (Mouse)	8	7	-3,57	0,08	0,007	0,020
	Q9WU63	Mus musculus (Mouse)	8	7	-3,57	0,08	0,002	0,007
	P04370	Mus musculus (Mouse)	8	7	-3,56	0,08	0,001	0,005

Glycerol-3-phosphate acyltransferase 3 (GPAT-3) (EC 2.3.1.15) (1-acyl-sn-glycerol-3-phosphate O-acyltransferase 10) (AGPAT 10) (1-acyl-sn-glycerol-3-phosphate O-acyltransferase 9) (1-AGP acyltransferase 9) (1-AGPAT 9) (EC 2.3.1.51) (Acyl-CoA:sn-glycerol-3-phosphate O-acyltransferase)	Q8C0N2	Mus musculus (Mouse)	8	7	-3,55	0,09	0,001	0,005
Dynamin-1 (EC 3.6.5.5)	Q05193	Homo sapiens (Human)	8	7	-3,53	0,09	0,003	0,011
Neurofilament light polypeptide (NF-L) (68 kDa neurofilament protein) (Myelin basic protein (MBP) (Myelin A1 protein) (Myelin membrane-associated protein)	P08551;P08553;P19246	Mus musculus (Mouse);Mus musculus (Mouse);Mus musculus (Mouse)	8	7	-3,53	0,09	0,002	0,008
Glutamyl aminopeptidase (EAP) (EC 3.4.11.7) (Aminopeptidase A) (AP-A) (BP-trefoil factor 3 (hITF))	P02686;P04370	Homo sapiens (Human);Mus musculus (Mouse)	8	7	-3,51	0,09	0,002	0,008
trefoil factor) (hITF) (Belamastide B1-B) (hBP1-B)	P16406	Mus musculus (Mouse)	8	7	-3,51	0,09	0,000	0,000
Cytochrome P450 2E1 (EC 1.14.14.1) (4-nitrophenol 2-hydroxylase) (EC 1.14.13.n7) (CYP11E1) (Cytochrome P450-protein phosphatase 1 regulatory subunit 16A (Myosin kinase type proteinase inhibitor 1 (Hepatocyte growth factor activator inhibitor type 1) (HAI)	Q07654	Homo sapiens (Human)	8	7	-3,49	0,09	0,000	0,000
Major urinary protein 2 (MUP epinephrin-1 (epin-interacting exchange protein) (Neuronal guanine nucleotide exchange Transmembrane channel-like Acyl-CoA desaturase 1 (EC 1.14.19.1) (Delta(9)-desaturase 1) (Delta-9 desaturase 1) (Fatty Glycerol-3-phosphate dehydrogenase [NAD(+)], autophagic (GDP-C) (GDP-C)	Q05421	Mus musculus (Mouse)	8	7	-3,48	0,09	0,001	0,005
	Q96134	Homo sapiens (Human)	8	7	-3,46	0,09	0,000	0,002
	Q9R097	Mus musculus (Mouse)	8	7	-3,46	0,09	0,003	0,010
	P11589;P11591	Mus musculus (Mouse);Mus	8	7	-3,46	0,09	0,000	0,000
	Q8N5V2	Homo sapiens (Human)	8	7	-3,45	0,09	0,000	0,000
	Q8C428	Mus musculus (Mouse)	8	7	-3,45	0,09	0,000	0,003
	P13516	Mus musculus (Mouse)	8	7	-3,45	0,09	0,001	0,003
	P13707	Mus musculus (Mouse)	8	7	-3,43	0,09	0,001	0,004

Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 1 protein (P-Rex1)	Q8TCU6	Homo sapiens (Human)	8	7	-3,41	0,09	0,000	0,000
Uridine-cytidine kinase 1 (UCK 1) (EC 2.7.1.48) (Cytidine monophosphokinase 1) cytosolic/nucleoside	P52623	Mus musculus (Mouse)	8	7	-3,41	0,09	0,000	0,000
cotransporter 2 (Concentrative nucleoside transporter 2) (CNT 2) (Na+)/nucleoside cotransporter 2) (Sodium-coupled nucleoside transporter perforinase/heparinase	O88627	Mus musculus (Mouse)	8	7	-3,41	0,09	0,008	0,024
1.16.3.1) (Hephaestin-like protein dehydrogenase 1, mitochondrial (EC 1.5.5.2) (perforinase)	Q3V1H3	Mus musculus (Mouse)	8	7	-3,40	0,09	0,002	0,008
Proton-coupled amino acid transporter 2 (Proton/amino acid transporter 2) (Solute carrier family 36 member 2) synaptophysin (protein synthesis)	Q9WU79	Mus musculus (Mouse)	8	7	-3,40	0,09	0,000	0,000
Proton-coupled amino acid transporter 2 (Proton/amino acid transporter 2) (Solute carrier family 36 member 2) synaptophysin (protein synthesis)	Q8BHK3	Mus musculus (Mouse)	8	7	-3,39	0,10	0,000	0,001
(Major synaptic vesicle protein perforin)	Q62277	Mus musculus (Mouse)	8	7	-3,39	0,10	0,000	0,001
Peroxisomal membrane protein 11A (Peroxin-11A) (Peroxisomal biogenesis factor	Q9Z211	Mus musculus (Mouse)	8	7	-3,38	0,10	0,000	0,001
Growth hormone receptor (GH receptor) (Somatotropin receptor) [Cleaved into: Growth hormone-binding	P16882	Mus musculus (Mouse)	8	7	-3,38	0,10	0,002	0,007

Top 100 hits upregulated in T-47D DSG2 KO#2 tumor

Description	Acessions	Organism	KO2 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
Matrix metalloproteinase-14 (MMP-14) (EC 3.4.24.80) (MMP-X1) (Membrane-type matrix metalloproteinase 1) (MT-MMP 1) (MTMMP1) (Membrane-type-1 matrix	P50281	Homo sapiens (Human)	8	7	6,71	104,65	0,000	0,000
C-type lectin domain family 2 member B (Activation-induced C-type lectin) (C-type lectin superfamily member 2) (IFN-alpha-2b-inducing-related protein 1)	Q92478	Homo sapiens (Human)	8	7	6,28	77,65	0,000	0,000
Cartilage matrix protein (Matrilin-1)	P21941;P51942	Homo sapiens (Human); Mus musculus (Mouse)	8	7	6,18	72,55	0,000	0,001
Queuosine 5'-phosphate N-glycosylase/hydrolase (EC 3.2.2.-) (Q-nucleotide N-glycosylase 1) (Queueine salvage protein QNG1) (Queuosine-nucleotide N-	Q5T6V5	Homo sapiens (Human)	8	7	5,85	57,75	0,000	0,000
Transgelin (22 kDa actin-binding protein) (Protein WS3-10) (Smooth muscle protein 22-alpha) (SM22-alpha)	Q01995	Homo sapiens (Human)	8	7	5,75	53,83	0,000	0,000
Growth arrest-specific protein 2 (GAS-2)	P11862	Mus musculus (Mouse)	8	7	5,50	45,28	0,000	0,000
Aquaporin-11 (AQP-11)	Q8BHH1; Q8NBQ7	Mus musculus (Mouse); Homo sapiens (Human)	8	7	5,49	45,10	0,000	0,000
Polyunsaturated fatty acid 5-lipoxygenase (EC 1.13.11.-) (Arachidonate 5-lipoxygenase) (5-LO) (5-lipoxygenase) (EC 1.13.11.34)	P09917	Homo sapiens (Human)	8	7	5,49	45,07	0,000	0,000

Myosin-IIIb (EC 2.7.11.1)	Q1EG27	Mus musculus (Mouse)	8	7	5,27	38,45	0,000	0,001
Early activation antigen CD69 (Activation inducer molecule) (AIM) (BL-AC/P26) (C-type lectin domain family 2 member C) (EA1) (Early T-cell activation antigen p60)	Q07108	Homo sapiens (Human)	8	7	5,20	36,68	0,000	0,000
Phosphoglycerate mutase 2 (EC 5.4.2.11) (EC 5.4.2.4) (BPG-dependent PGAM 2) (Muscle-specific phosphoglycerate mutase) (Phosphoglycerate mutase)	P15259	Homo sapiens (Human)	8	7	5,08	33,85	0,000	0,000
Protein S100-A2 (CAN19) (Protein S-100L) (S100 calcium-binding protein A2)	P29034	Homo sapiens (Human)	8	7	4,99	31,79	0,000	0,000
Zinc finger CCCH-type antiviral protein 1 (ADP-ribosyltransferase diphtheria toxin-like 13) (ARTD13) (Inactive Poly [ADP-ribose] polymerase 13) (PARP13) (Zinc finger CCCH domain-containing protein 2) (Zinc finger antiviral protein) (ZAP)	Q7Z2W4; Q8BZ20; Q9H0J9	Homo sapiens (Human); Mus musculus (Mouse); Homo sapiens (Human)	8	7	4,99	31,73	0,000	0,000
Protein Daple (Coiled-coil domain-containing protein 88C) (Dvl-associating protein with a high frequency of leucine residues)	Q6VGS5	Mus musculus (Mouse)	8	7	4,98	31,65	0,000	0,000
Galectin-9 (Gal-9) (Ecalectin) (Tumor antigen HOM-HD-21)	O00182	Homo sapiens (Human)	8	7	4,98	31,56	0,000	0,000
Amine oxidase [flavin-containing] B (EC 1.4.3.21) (EC 1.4.3.4) (Monoamine oxidase type B) (MAO-B)	P27338	Homo sapiens (Human)	8	7	4,87	29,31	0,000	0,000
Myosin light chain kinase, smooth muscle (MLCK) (smMLCK) (EC 2.7.11.18) (Kinase-related protein) (KRP) (Telokin) [Cleaved into: Myosin light chain kinase,	Q15746	Homo sapiens (Human)	8	7	4,83	28,44	0,000	0,000

BTB/POZ domain-containing protein KCTD14	Q9BQ13	Homo sapiens (Human)	8	7	4,82	28,22	0,000	0,000
EGF-containing fibulin-like extracellular matrix protein 2 (Fibulin-4) (FIBL-4) (Protein UPH1)	O95967	Homo sapiens (Human)	8	7	4,81	28,14	0,000	0,000
17-beta-hydroxysteroid dehydrogenase type 2 (17-beta-HSD 2) (20 alpha-hydroxysteroid dehydrogenase) (20-alpha-HSD) (E2DH) (Estradiol 17-beta-dehydrogenase 2) (EC 1.1.1.62) (Microsomal 17-beta-hydroxysteroid dehydrogenase) (Short chain dehydrogenase/reductase	P37059	Homo sapiens (Human)	8	7	4,78	27,40	0,000	0,000
Amine oxidase [flavin-containing] A (EC 1.4.3.21) (EC 1.4.3.4) (Monoamine oxidase type A) (MAO-A)	P21397;P27338	Homo sapiens (Human); Homo sapiens (Human)	8	7	4,76	27,18	0,000	0,000
Protocadherin Fat 2 (hFat2) (Cadherin family member 8) (Multiple epidermal growth factor-like domains protein 1) (Multiple EGF-like domains protein 1)	Q9NYQ8	Homo sapiens (Human)	8	7	4,76	27,17	0,000	0,000
Tubulin polymerization-promoting protein family member 3 (TPPP/p20)	Q9BW30	Homo sapiens (Human)	8	7	4,74	26,66	0,000	0,000
Aldehyde dehydrogenase 1A1 (EC 1.2.1.19) (EC 1.2.1.28) (EC 1.2.1.3) (EC 1.2.1.36) (3-deoxyglucosone dehydrogenase) (ALDH-E1) (ALHDII) (Aldehyde dehydrogenase family 1 member A1) (Aldehyde	P00352	Homo sapiens (Human)	8	7	4,72	26,44	0,000	0,000
Peptidyl-prolyl cis-trans isomerase FKBP10 (PPIase FKBP10) (EC 5.2.1.8) (65 kDa FK506-binding protein) (65 kDa FKBP) (FKBP-65) (FK506-binding protein 10) (FKBP-	Q96AY3	Homo sapiens (Human)	8	7	4,70	25,99	0,000	0,000
Tenascin-N (TN-N) (Tenascin-W) (TN-W)	Q80Z71	Mus musculus (Mouse)	8	7	4,68	25,68	0,000	0,000

Collagen alpha-1(XI) chain	Q96P44	Homo sapiens (Human)	8	7	4,67	25,44	0,000	0,000
Ropporin-1-like protein (ROPN1-like protein) (AKAP-associated sperm protein)	Q96C74	Homo sapiens (Human)	8	7	4,66	25,23	0,000	0,000
CHD9 neighbor protein	A0A1B0GV96	Homo sapiens (Human)	8	7	4,65	25,10	0,000	0,000
1-acyl-sn-glycerol-3-phosphate acyltransferase beta (EC 2.3.1.51) (1-acylglycerol-3-phosphate O-acyltransferase 2) (1-AGP acyltransferase 2) (1-AGPAT 2)	O15120	Homo sapiens (Human)	8	7	4,62	24,55	0,000	0,000
A disintegrin and metalloproteinase with thrombospondin motifs 12 (ADAM-TS 12) (ADAM-TS12) (ADAMTS-12) (EC 3.4.24.-)	P58397;Q811B3	Homo sapiens (Human); Mus musculus (Mouse)	8	7	4,59	24,06	0,000	0,001
Necdin	Q99608	Homo sapiens (Human)	8	7	4,58	23,97	0,000	0,000
Caspase-1 (CASP-1) (EC 3.4.22.36) (Interleukin-1 beta convertase) (IL-1BC) (Interleukin-1 beta-converting enzyme) (ICE) (IL-1 beta-converting enzyme) (p45)	P29466	Homo sapiens (Human)	8	7	4,54	23,25	0,000	0,000
Ribosome biogenesis protein BRX1 homolog (Brix domain-containing protein 2)	Q9DCA5	Mus musculus (Mouse)	8	7	4,53	23,11	0,000	0,000
Protocadherin Fat 2 (FAT tumor suppressor homolog 2)	Q5F226;Q9NYQ8	Mus musculus (Mouse); Homo sapiens (Human)	8	7	4,52	22,91	0,000	0,000

Uridylate-specific endoribonuclease (EC 4.6.1.-) (Placental protein 11) (PP11) (Protein endoU)	P21128	Homo sapiens (Human)	8	7	4,45	21,89	0,000	0,000
Uridine diphosphate glucose pyrophosphatase NUDT14 (UDPG pyrophosphatase) (UGPPase) (EC 3.6.1.45) (Nucleoside diphosphate-linked moiety X motif 14)	O95848	Homo sapiens (Human)	8	7	4,40	21,16	0,000	0,000
HLA class II histocompatibility antigen, DP alpha 1 chain (DP(W3)) (DP(W4)) (HLA-SB alpha chain) (MHC class II DP3-alpha) (MHC class II DPA1)	P20036	Homo sapiens (Human)	8	7	4,38	20,78	0,000	0,000
E3 ubiquitin-protein ligase TRIM34 (EC 2.3.2.27) (Interferon-responsive finger protein 1) (RING finger protein 21)	Q9BYJ4	Homo sapiens (Human)	8	7	4,36	20,55	0,000	0,000
Gap junction alpha-1 protein (Connexin-43) (Cx43) (Gap junction 43 kDa heart protein)	P17302	Homo sapiens (Human)	8	7	4,35	20,35	0,000	0,000
DNA dC->dU-editing enzyme APOBEC-3G (EC 3.5.4.38) (APOBEC-related cytidine deaminase) (APOBEC-related protein) (ARCD) (APOBEC-related protein 9) (ARP-9)	Q9HC16	Homo sapiens (Human)	8	7	4,29	19,62	0,000	0,000
Plastin-2 (L-plastin) (LC64P) (Lymphocyte cytosolic protein 1) (LCP-1)	P13796	Homo sapiens (Human)	8	7	4,26	19,12	0,000	0,000
Thy-1 membrane glycoprotein (CDw90) (Thy-1 antigen) (CD antigen CD90)	P04216	Homo sapiens (Human)	8	7	4,22	18,58	0,000	0,000
Aldo-keto reductase family 1 member C3 (EC 1.1.1.-) (EC 1.1.1.210) (EC 1.1.1.53) (EC 1.1.1.62) (17-beta- hydroxysteroid dehydrogenase type 5) (17-beta-HSD 5) (3-alpha-HSD type II, brain) (3-alpha-hydroxysteroid dehydrogenase type 2) (3-alpha-HSD type 2) (EC 1.1.1.357) (Chlordecone reductase homolog HAKRb)	P42330	Homo sapiens (Human)	8	7	4,19	18,29	0,000	0,001
Acyl-CoA synthetase short-chain family member 3, mitochondrial (EC 6.2.1.1) (Acetate--CoA ligase 3) (Acyl- CoA synthetase short-chain family member 3)	Q9H6R3	Homo sapiens (Human)	8	7	4,19	18,20	0,000	0,000

Cadherin-10 (T2-cadherin)	Q9Y6N8	Homo sapiens (Human)	8	7	4,14	17,61	0,000	0,000
Tenascin (TN) (Cytotactin) (GMEM) (GP 150-225) (Glioma-associated-extracellular matrix antigen) (Hexabrachion) (JI) (Myotendinous antigen) (Neuronectin) (Tenascin-C)	P24821	Homo sapiens (Human)	8	7	4,07	16,78	0,000	0,000
Phagosome assembly factor 1	Q922R1;Q9BSU1	Mus musculus (Mouse);Homo sapiens (Human)	8	7	4,07	16,75	0,005	0,025
Latent-transforming growth factor beta-binding protein 4 (LTBP-4)	Q8N2S1	Homo sapiens (Human)	8	7	4,06	16,67	0,000	0,000
HLA class II histocompatibility antigen gamma chain (HLA-DR antigens-associated invariant chain) (Ia antigen-associated invariant chain) (Ii) (CD antigen CD74)	P04233	Homo sapiens (Human)	8	7	4,05	16,58	0,000	0,000
Radial spoke head protein 4 homolog A (Radial spoke head-like protein 3)	Q5TD94	Homo sapiens (Human)	8	7	4,03	16,33	0,000	0,000
Armadillo repeat-containing X-linked protein 1 (ARM protein lost in epithelial cancers on chromosome X 1) (Protein ALEX1)	Q9P291	Homo sapiens (Human)	8	7	4,00	16,03	0,000	0,000
Vascular endothelial growth factor receptor 3 (VEGFR-3) (EC 2.7.10.1) (Fms-like tyrosine kinase 4) (FLT-4) (Tyrosine-protein kinase receptor FLT4)	P35917	Mus musculus (Mouse)	8	7	3,99	15,94	0,001	0,006
Ubiquitin-related modifier 1	Q9BTM9	Homo sapiens (Human)	8	7	3,99	15,90	0,000	0,001
E3 ubiquitin-protein ligase TRIM38 (EC 2.3.2.27) (RING finger protein 15) (Tripartite motif-containing protein 38) (Zinc finger protein RoRet)	O00635	Homo sapiens (Human)	8	7	3,99	15,86	0,000	0,000

Calmodulin-like protein 3 (CaM-like protein) (CLP) (Calmodulin-related protein NB-1)	P27482	Homo sapiens (Human)	8	7	3,99	15,85	0,000	0,002
E3 ubiquitin-protein ligase TRIM22 (EC 2.3.2.27) (50 kDa-stimulated trans-acting factor) (RING finger protein 94) (RING-type E3 ubiquitin transferase TRIM22) (Staf-50)	Q8IYM9	Homo sapiens (Human)	8	7	3,95	15,44	0,000	0,000
Sterile alpha motif domain-containing protein 1 (SAM domain-containing protein 1) (Atherin)	Q6SPF0	Homo sapiens (Human)	8	7	3,94	15,31	0,000	0,000
Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3 [Includes: Procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 (EC 1.14.11.4) (Lysyl hydroxylase 3) (LH3)]	O60568;Q9R0E1;Q9R0E2	Homo sapiens (Human); Mus musculus (Mouse); Mus musculus (Mouse)	8	7	3,92	15,18	0,000	0,000
Stimulator of interferon genes protein (hSTING) (Endoplasmic reticulum interferon stimulator) (ERIS) (Mediator of IRF3 activation) (hMITA) (Transmembrane	Q86WV6	Homo sapiens (Human); Mus musculus (Mouse);Homo	8	7	3,91	15,03	0,000	0,000
Multifunctional protein CAD (Carbamoyl phosphate synthetase 2-aspartate transcarbamylase-dihydroorotase) [Includes: Glutamine-dependent carbamoyl-phosphate synthase (EC 6.3.5.5)]	B2RQC6;P27708;P31327;Q8C196	sapiens (Human); Homo sapiens (Human); Mus musculus (Mouse)	8	7	3,87	14,61	0,002	0,013

		Homo sapiens (Human); Mus musculus (Mouse); Homo sapiens (Human); Mus musculus (Mouse)							
Thrombospondin-1 (Glycoprotein G)	P07996;P35441;P35442;Q03350		8	7	3,86	14,55	0,001	0,006	
Mitochondrial coenzyme A transporter SLC25A42 (Solute carrier family 25 member 42)	Q86VD7	Homo sapiens (Human)	8	7	3,85	14,45	0,000	0,001	
Myeloid leukemia factor 1 (Myelodysplasia-myeloid leukemia factor 1)	P58340	Homo sapiens (Human)	8	7	3,84	14,28	0,000	0,000	
Protein Shroom2 (Apical-like protein) (Protein APXL)	Q13796;Q8TF72	Homo sapiens (Human); Homo sapiens (Human)	8	7	3,82	14,17	0,000	0,000	
Laminin subunit gamma-2 (Cell-scattering factor 140 kDa subunit) (CSF 140 kDa subunit) (Epiligrin subunit gamma) (Kalinin subunit gamma) (Kalinin/nicein/epiligrin 100 kDa subunit) (Ladsin 140 kDa subunit) (Laminin B2t chain)	Q13753	Homo sapiens (Human)	8	7	3,82	14,09	0,000	0,000	
Integrin beta-6	P18564	Homo sapiens (Human)	8	7	3,81	14,06	0,000	0,000	

		Mus musculus (Mouse);							
Chondroitin sulfate N-acetylgalactosaminyltransferase 1 (CsGalNAcT-1) (EC 2.4.1.174) (Chondroitin beta-1,4-N-acetylgalactosaminyltransferase 1) (Beta4GalNAcT-1)	Q8BJQ9;Q8C1F4;Q8N6G5	Mus musculus (Mouse);Homo sapiens (Human)	8	7	3,81	14,04	0,000	0,000	
Creatine kinase B-type (EC 2.7.3.2) (Brain creatine kinase) (B-CK) (Creatine kinase B chain) (Creatine phosphokinase B-type) (CPK-B)	P12277	Homo sapiens (Human)	8	7	3,81	14,02	0,000	0,000	
		Homo sapiens (Human);							
Threonine--tRNA ligase 2, cytoplasmic (EC 6.1.1.3) (Threonyl-tRNA synthetase) (ThrRS) (Threonyl-tRNA synthetase protein 3)	A2RTX5;P26639;Q9D0R2	Homo sapiens (Human); Mus musculus (Mouse)	8	7	3,80	13,93	0,001	0,006	
		Homo sapiens (Human)							
Stonin-2 (Stoned B)	Q8WXE9	Homo sapiens (Human)	8	7	3,78	13,75	0,000	0,000	
		Homo sapiens (Human)							
Coiled-coil domain-containing protein 28B	Q9BUN5	Homo sapiens (Human)	8	7	3,77	13,62	0,000	0,000	
Epidermal growth factor-like protein 7 (EGF-like protein 7) (Multiple epidermal growth factor-like domains protein 7) (Multiple EGF-like domains protein 7)	Q9UHF1	Homo sapiens (Human)	8	7	3,76	13,58	0,000	0,000	
		Homo sapiens (Human)							
Glycine N-acyltransferase-like protein 2 (EC 2.3.1.13) (Acyl-CoA:glycine N-acyltransferase-like protein 2)	Q8WU03	Homo sapiens (Human)	8	7	3,75	13,47	0,000	0,000	

CDP-diacylglycerol--inositol 3-phosphatidyltransferase (EC 2.7.8.11) (Phosphatidylinositol synthase) (PI synthase) (PtdIns synthase)	O14735	Homo sapiens (Human)	8	7	3,71	13,04	0,000	0,003
Protein FAM83E	Q2M2I3	Homo sapiens (Human)	8	7	3,70	12,96	0,000	0,000
Microfibrillar-associated protein 2 (MFAP-2) (Microfibril-associated glycoprotein 1) (MAGP) (MAGP-1)	P55001	Homo sapiens (Human)	8	7	3,70	12,95	0,000	0,000
Epidermal growth factor receptor (EC 2.7.10.1) (Proto-oncogene c-ErbB-1) (Receptor tyrosine-protein kinase erbB-1)	P00533	Homo sapiens (Human)	8	7	3,69	12,94	0,000	0,000
Matrilin-2	O00339	Homo sapiens (Human)	8	7	3,69	12,94	0,000	0,000
1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase delta-4 (hPLCD4) (EC 3.1.4.11) (Phosphoinositide phospholipase C-delta-4)	Q9BRC7	Homo sapiens (Human)	8	7	3,67	12,77	0,000	0,000
CCN family member 1 (3CH61) (Cellular communication network factor 1) (Cysteine-rich angiogenic inducer 61) (Insulin-like growth factor-binding protein 10) (IBP-10)	P18406	Mus musculus (Mouse)	8	7	3,67	12,75	0,000	0,000
Signal peptide, CUB and EGF-like domain-containing protein 2 (Protein CEGP1) (Scube/You)	Q9NQ36	Homo sapiens (Human)	8	7	3,67	12,74	0,000	0,000
Interferon-induced transmembrane protein 3 (Dispanin subfamily A member 2b) (DSPA2b) (Interferon-inducible protein 1-8U)	Q01628	Homo sapiens (Human)	8	7	3,66	12,64	0,000	0,000

		Homo sapiens (Human); Homo sapiens (Human);							
Plexin-A2 (Semaphorin receptor OCT)	075051;P51805;P70206;Q9UIW2	Mus musculus (Mouse);Homo sapiens (Human)	8	7	3,65	12,59	0,004	0,021	
Alpha-1-acid glycoprotein 2 (AGP 2) (Orosomucoid-2) (OMD 2)	P07361	Mus musculus (Mouse)	8	7	3,64	12,49	0,000	0,000	
Lysophosphatidic acid receptor 1 (LPA receptor 1) (LPA-1) (Lysophosphatidic acid receptor Edg-2)	Q92633	Homo sapiens (Human)	8	7	3,63	12,40	0,000	0,000	
Cell surface glycoprotein MUC18 (Cell surface glycoprotein P1H12) (Melanoma cell adhesion molecule) (Melanoma-associated antigen A32) (Melanoma-	P43121	Homo sapiens (Human)	8	7	3,63	12,39	0,000	0,000	
Protein O-mannosyl-transferase TMTC1 (EC 2.4.1.109) (Transmembrane and TPR repeat-containing protein 1)	Q8IUR5	Homo sapiens (Human)	8	7	3,62	12,29	0,000	0,000	
Protein wntless homolog (Integral membrane protein GPR177) (Protein evenness interrupted homolog) (EVI) (Putative NF-kappa-B-activating protein 373)	Q5T9L3	Homo sapiens (Human)	8	7	3,61	12,18	0,000	0,000	
Thrombospondin-3	P49746	Homo sapiens (Human)	8	7	3,60	12,12	0,000	0,000	
Copine-2 (Copine II)	Q96FN4	Homo sapiens (Human)	8	7	3,59	12,02	0,000	0,000	

Thrombospondin-2	P35442;Q03350	Homo sapiens (Human); Mus musculus (Mouse)	8	7	3,58	11,93	0,000	0,000
Leucine-rich melanocyte differentiation-associated protein	Q9D9B4;Q9H2I8	Mus musculus (Mouse);Homo sapiens (Human)	8	7	3,58	11,92	0,004	0,019
Signal peptide, CUB and EGF-like domain-containing protein 2 (Protein CEGP1) (Scube/You)	Q9JJS0;Q9NQ36	Mus musculus (Mouse);Homo sapiens (Human)	8	7	3,56	11,77	0,000	0,000
Adenylate kinase 7 (AK 7) (EC 2.7.4.3) (EC 2.7.4.6) (ATP-AMP transphosphorylase 7)	Q96M32	Homo sapiens (Human)	8	7	3,55	11,74	0,000	0,000
CKLF-like MARVEL transmembrane domain-containing protein 6 (Chemokine-like factor superfamily member 6)	Q9NX76	Homo sapiens (Human)	8	7	3,54	11,63	0,000	0,000
Sugar transporter SWEET1 (HsSWEET1) (RAG1-activating protein 1) (Solute carrier family 50 member 1) (Stromal cell protein)	Q9BRV3	Homo sapiens (Human)	8	7	3,53	11,56	0,000	0,002
Nucleoside diphosphate kinase, mitochondrial (NDK) (NDP kinase, mitochondrial) (EC 2.7.4.6) (Nucleoside diphosphate kinase D) (NDPKD) (nm23-H4)	O00746	Homo sapiens (Human)	8	7	3,53	11,53	0,000	0,000

Annexin A8 (Annexin VIII) (Annexin-8) (Vascular anticoagulant-beta) (VAC-beta)	P13928;Q5VT79	Homo sapiens (Human); Homo sapiens (Human)	8	7	3,50	11,34	0,000	0,000
Calretinin (CR) (29 kDa calbindin)	P22676	Homo sapiens (Human)	8	7	3,50	11,33	0,000	0,000
Ras-related protein Rab-7b	Q96AH8	Homo sapiens (Human)	8	7	3,50	11,32	0,000	0,000

Top 100 hits downregulated in T-47D DSG2 KO#2 tumor xenografts compared to WT

Description	Acessions	Organism	KO2 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
Ribosomal protein S6 kinase alpha-3 (S6K-alpha-3) (EC 2.7.11.1) (90 kDa ribosomal protein S6 kinase 3) (p90-RSK 3) (p90RSK3) (MAP kinase-activated protein kinase 1b) (MAPK-activated protein kinase 1b) (MAPKAP kinase 1b) (MAPKAPK-1b) (Ribosomal S6 kinase 2) (RSK-2) (pp90RSK2)	P18654;P51812;Q9UK32	Mus musculus (Mouse);Homo sapiens (Human);Homo sapiens (Human)	8	7	-5,78	0,02	0,000	0,000
OTTMUSG00000000712 protein (Serine (or cysteine) peptidase inhibitor, clade B, member 6d)	Q3UWK8	Mus musculus (Mouse)	8	7	-5,48	0,02	0,007	0,029
Carcinoembryonic antigen-related cell adhesion molecule 5 (Carcinoembryonic antigen) (CEA) (Meconium antigen 100) (CD antigen CD66e)	P06731;P40199	Homo sapiens (Human);Homo sapiens (Human)	8	7	-5,25	0,03	0,000	0,000
Fatty-acid amide hydrolase 1 (EC 3.5.1.99) (Anandamide amidohydrolase 1) (Fatty acid ester hydrolase) (EC 3.1.1.-) (Oleamide hydrolase 1)	O08914	Mus musculus (Mouse)	8	7	-5,16	0,03	0,000	0,003
Mesothelin (CAK1 antigen) (Pre-pro-megakaryocyte-potentiating factor) [Cleaved into: Megakaryocyte-potentiating factor (MPF)]	Q13421	Homo sapiens (Human)	8	7	-5,00	0,03	0,000	0,000
Major urinary protein 3 (MUP 3) (Non-group 1/group 2 MUP15)	P04939	Mus musculus (Mouse)	8	7	-4,92	0,03	0,000	0,002
Aldo-keto reductase family 1, member C-like	Q3UXL1	Mus musculus (Mouse)	8	7	-4,80	0,04	0,000	0,000
Scinderin (Adseverin) (Gelsolin-like protein)	Q60604	Mus musculus (Mouse)	8	7	-4,75	0,04	0,000	0,004
Macrophage galactose N-acetyl-galactosamine specific lectin 2	A9XX86	Mus musculus (Mouse)	8	7	-4,71	0,04	0,000	0,001

Ferroxidase HEPHL1 (EC 1.16.3.1) (Hephaestin-like protein 1)	Q3V1H3	Mus musculus (Mouse)	8	7	-4,65	0,04	0,000	0,001
ABPA27 (Androgen binding protein alpha) (Androgen-binding protein) (Secretoglobin, family 1B, member 27)	Q91WB5	Mus musculus (Mouse)	8	7	-4,61	0,04	0,000	0,003
Putative testis-expressed protein 13C	A0A0J9YWL9	Homo sapiens (Human)	8	7	-4,59	0,04	0,000	0,000
Opioid-binding protein/cell adhesion molecule (OBCAM) (OPCML) (Opioid-binding cell adhesion molecule) (IgLON family member 1)	Q14982	Homo sapiens (Human)	8	7	-4,59	0,04	0,002	0,014
E3 ubiquitin-protein ligase parkin (EC 2.3.2.31) (Parkin RBR E3 ubiquitin-protein ligase)	Q9WVS6	Mus musculus (Mouse)	8	7	-4,52	0,04	0,001	0,007
Protein lin-28 homolog A (Lin-28A) (Zinc finger CCHC domain-containing protein 1)	Q9H9Z2	Homo sapiens (Human)	8	7	-4,50	0,04	0,000	0,000
SEC14-like protein 4	Q8R0F9	Mus musculus (Mouse)	8	7	-4,50	0,04	0,001	0,007
Diacylglycerol kinase iota (DAG kinase iota) (DGK-iota) (EC 2.7.1.107)	O75912	Homo sapiens (Human)	8	7	-4,45	0,05	0,004	0,019
Major urinary protein 2 (MUP 2)	P11589	Mus musculus (Mouse)	8	7	-4,42	0,05	0,000	0,000
Eosinophil cationic-type ribonuclease 3 (MR-3)	O35290	Mus musculus (Mouse)	8	7	-4,41	0,05	0,006	0,027
Spondin-2 (Mandin)	Q8BMS2	Mus musculus (Mouse)	8	7	-4,39	0,05	0,000	0,001
Aldehyde dehydrogenase, dimeric NADP-preferring (EC 1.2.1.5) (Aldehyde dehydrogenase 4) (Aldehyde dehydrogenase family 3 member A1) (Dioxin-inducible aldehyde dehydrogenase 3)	P47739	Mus musculus (Mouse)	8	7	-4,33	0,05	0,005	0,023
Ketimine reductase mu-crystallin (EC 1.5.1.25) (NADP-regulated thyroid-hormone-binding protein)	Q14894	Homo sapiens (Human)	8	7	-4,33	0,05	0,000	0,000

Guanylate-binding protein 8	Q2V6D6;Q8BTS3	Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-4,29	0,05	0,000	0,001
Polyunsaturated fatty acid lipoygenase ALOX15B (15-lipoygenase 2) (15-LOX-2) (Arachidonate 15-lipoygenase B) (15-LOX-B) (EC 1.13.11.33) (Arachidonate 15-lipoygenase type II) (Linoleate 13-lipoygenase 15-LOb) (EC 1.13.11.-)	O15296	Homo sapiens (Human)	8	7	-4,28	0,05	0,001	0,010
Extracellular matrix protein 1 (Secretory component p85)	Q16610	Homo sapiens (Human)	8	7	-4,26	0,05	0,000	0,001
Spectrin beta chain	Q68FG2	Mus musculus (Mouse)	8	7	-4,21	0,05	0,001	0,007
Calpain-12 (EC 3.4.22.-) (Calcium-activated neutral proteinase 12) (CANP 12)	Q9ER56	Mus musculus (Mouse)	8	7	-4,18	0,06	0,000	0,004
Tripartite motif-containing protein 29	Q8R2Q0	Mus musculus (Mouse)	8	7	-4,13	0,06	0,004	0,021
3-ketoacyl-CoA thiolase B, peroxisomal (EC 2.3.1.155) (EC 2.3.1.16) (EC 2.3.1.9) (Acetyl-CoA acyltransferase B) (Beta-ketothiolase B) (Peroxisomal 3-oxoacyl-CoA thiolase B)	Q8VCH0	Mus musculus (Mouse)	8	7	-4,12	0,06	0,001	0,006
Major urinary protein 17 (MUP 17)	B5X0G2	Mus musculus (Mouse)	8	7	-4,09	0,06	0,000	0,000
Collagen alpha-1(XVII) chain (180 kDa bullous pemphigoid antigen 2) (Bullous pemphigoid antigen 2) [Cleaved into: 120 kDa linear IgA disease antigen homolog]	Q07563	Mus musculus (Mouse)	8	7	-4,08	0,06	0,002	0,011
Polyunsaturated fatty acid lipoygenase ALOX15 (12/15-lipoygenase) (12/15-LO) (Arachidonate 12-lipoygenase, leukocyte-type) (12-LOX) (L-12LO) (EC 1.13.11.31) (Arachidonate 15-lipoygenase) (15-LOX) (EC 1.13.11.33) (Arachidonate omega-6 lipoygenase) (Hepoxilin A3 synthase Alox15) (EC 1.13.11.-) (Linoleate 13S-lipoygenase) (EC 1.13.11.12)	P39654	Mus musculus (Mouse)	8	7	-4,06	0,06	0,000	0,000
Deoxyribonuclease-1-like 1 (EC 3.1.21.-) (DNase X) (Deoxyribonuclease I-like 1) (DNase I-like 1) (Muscle-specific DNase I-like) (XIB)	P49184	Homo sapiens (Human)	8	7	-4,04	0,06	0,000	0,000
Melanoma-associated antigen B10 (MAGE-B10 antigen)	Q96LZ2	Homo sapiens (Human)	8	7	-4,02	0,06	0,000	0,000

Claudin-3 (Clostridium perfringens enterotoxin receptor 2) (CPE-R 2) (CPE-receptor 2)	Q9Z0G9	Mus musculus (Mouse)	8	7	-4,01	0,06	0,003	0,017
Glutathione S-transferase A3 (EC 2.5.1.18) (GST class-alpha member 3) (Glutathione S-transferase Ya3) (Glutathione S-transferase Yc)	P30115	Mus musculus (Mouse)	8	7	-3,99	0,06	0,000	0,000
Serine (or cysteine) peptidase inhibitor, clade B, member 6c	W4VSP4	Mus musculus (Mouse)	8	7	-3,97	0,06	0,006	0,028
IgGfc-binding protein (Fcgamma-binding protein antigen) (FcgammaBP)	Q9Y6R7	Homo sapiens (Human)	8	7	-3,96	0,06	0,001	0,007
Kunitz-type protease inhibitor 1 (Hepatocyte growth factor activator inhibitor type 1) (HAI-1)	Q9R097	Mus musculus (Mouse)	8	7	-3,95	0,06	0,001	0,007
Glutathione S-transferase A3 (EC 2.5.1.18) (GST class-alpha member 3) (Glutathione S-transferase Ya3) (Glutathione S-transferase Yc)	P30115;Q16772	Mus musculus (Mouse);Homo sapiens (Human)	8	7	-3,93	0,07	0,009	0,036
Glutathione S-transferase Mu 2 (EC 2.5.1.18) (GST 5-5) (GST class-mu 2) (Glutathione S-transferase pmGT2)	P15626;Q80W21;Q8R5I6	Mus musculus (Mouse);Mus musculus (Mouse)	8	7	-3,88	0,07	0,007	0,031
Myeloid leukemia factor 1 (Hematopoietic lineage switch 7) (Myelodysplasia-myeloid leukemia factor 1)	Q9QWV4	Mus musculus (Mouse)	8	7	-3,85	0,07	0,002	0,011
Tumor necrosis factor receptor superfamily member 16 (Low affinity neurotrophin receptor p75NTR) (Low-affinity nerve growth factor receptor) (NGF receptor) (Low-affinity nerve growth factor receptor p75NGFR) (Low-affinity nerve growth factor receptor p75NGR) (CD antigen CD271)	Q9Z0W1	Mus musculus (Mouse)	8	7	-3,84	0,07	0,000	0,001
Aldehyde dehydrogenase, cytosolic 1 (EC 1.2.1.3) (ALDH class 1) (ALDH-E1) (ALHDII) (Aldehyde dehydrogenase family 1 member A7) (Aldehyde dehydrogenase phenobarbital-inducible)	O35945	Mus musculus (Mouse)	8	7	-3,83	0,07	0,000	0,002

5-hydroxyisourate hydrolase (HIU hydrolase) (HIUHase) (EC 3.5.2.17) (Transthyretin-related protein)	Q9CRB3	Mus musculus (Mouse)	8	7	-3,81	0,07	0,003	0,017
Cornifin-A (Small proline-rich protein 1A) (SPR1 A) (SPR1A)	Q62266	Mus musculus (Mouse)	8	7	-3,81	0,07	0,005	0,024
Epidermal growth factor receptor kinase substrate 8-like protein 2 (EPS8-like protein 2) (Epidermal growth factor receptor pathway substrate 8-related protein 2) (EPS8-related protein 2)	Q99K30	Mus musculus (Mouse)	8	7	-3,81	0,07	0,000	0,002
CD209 antigen-like protein D (DC-SIGN-related protein 3) (DC-SIGNR3) (CD antigen CD209)	Q91ZW8	Mus musculus (Mouse)	8	7	-3,81	0,07	0,000	0,001
Epidermal growth factor receptor kinase substrate 8-like protein 1 (EPS8-like protein 1) (Epidermal growth factor receptor pathway substrate 8-related protein 1) (EPS8-related protein 1)	Q8R5F8	Mus musculus (Mouse)	8	7	-3,79	0,07	0,002	0,011
Predicted gene 10024	A0A0A0M QA4;J3KM P7;J3QK64	Mus musculus (Mouse); Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-3,78	0,07	0,004	0,022
Dehydrogenase/reductase SDR family member 2, mitochondrial (EC 1.1.1.-) (Dicarbonyl reductase HEP27) (Protein D) (Short chain dehydrogenase/reductase family 25C member 1) (Protein SDR25C1)	Q13268	Homo sapiens (Human) Mus musculus (Mouse);H	8	7	-3,77	0,07	0,000	0,000
Dual specificity protein phosphatase 22 (EC 3.1.3.16) (EC 3.1.3.48) (Low molecular weight dual specificity phosphatase 2) (LMW-DSP2)	Q99N11;Q 9NRW4	omo sapiens (Human) Mus musculus (Mouse)	8	7	-3,73	0,08	0,001	0,009
Pleckstrin homology domain-containing family H member 3 (PH domain-containing family H member 3)	Q8VCE9	Mus musculus (Mouse)	8	7	-3,72	0,08	0,000	0,003
GTP-binding protein REM 1 (Rad and Gem-like GTP-binding protein 1)	O35929	Mus musculus (Mouse)	8	7	-3,71	0,08	0,000	0,001

CUB domain-containing protein 1 (Membrane glycoprotein gp140) (Transmembrane and associated with src kinases) (CD antigen CD318)	Q5U462	Mus musculus (Mouse)	8	7	-3,69	0,08	0,000	0,003
Uncharacterized protein C1orf21 homolog	Q8K207	Mus musculus (Mouse)	8	7	-3,69	0,08	0,001	0,008
Suppressor of tumorigenicity 14 protein homolog (EC 3.4.21.109) (Epithin) (Serine protease 14)	P56677	Mus musculus (Mouse)	8	7	-3,67	0,08	0,000	0,001
Desmoglein-4	Q7TMD7	Mus musculus (Mouse)	8	7	-3,64	0,08	0,001	0,008
Epithelial cell adhesion molecule (Ep-CAM) (Epithelial glycoprotein 314) (EGP314) (mEGP314) (Protein 289A) (Tumor-associated calcium signal transducer 1) (CD antigen CD326)	Q99JW5	Mus musculus (Mouse)	8	7	-3,64	0,08	0,000	0,001
Cingulin	P59242	Mus musculus (Mouse)	8	7	-3,63	0,08	0,003	0,015
Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 (EC 2.4.3.3) (GalNAc alpha-2,6-sialyltransferase I) (ST6GalNAc I) (ST6GalNAcI) (Sialyltransferase 7A) (SIAT7-A)	Q9QZ39	Mus musculus (Mouse)	8	7	-3,63	0,08	0,000	0,002
Leucine-rich repeat-containing protein 1	Q80VQ1	Mus musculus (Mouse)	8	7	-3,63	0,08	0,000	0,000
Desmocollin-2 (Epithelial type 2 desmocollin)	P55292	Mus musculus (Mouse)	8	7	-3,62	0,08	0,001	0,005
Trefoil factor 3 (Intestinal trefoil factor) (hITF) (Polypeptide P1.B) (hP1.B)	Q07654	Homo sapiens (Human)	8	7	-3,58	0,08	0,000	0,000
Heme-binding protein 2 (Protein SOUL)	Q9WU63	Mus musculus (Mouse)	8	7	-3,57	0,08	0,002	0,011
Sodium-dependent noradrenaline transporter (Norepinephrine transporter) (NET) (Solute carrier family 6 member 2)	O55192	Mus musculus (Mouse)	8	7	-3,57	0,08	0,000	0,001
Fc fragment of IgG binding protein	E9Q9C6	Mus musculus (Mouse)	8	7	-3,57	0,08	0,000	0,003

N-fatty-acyl-amino acid synthase/hydrolase PM20D1 (EC 3.5.1.114) (EC 3.5.1.14) (Peptidase M20 domain-containing protein 1) (PM20D1)	Q8C165	Mus musculus (Mouse)	8	7	-3,56	0,08	0,000	0,000
Deoxyribonuclease-1-like 2 (EC 3.1.21.-) (Deoxyribonuclease I-like 2) (DNase I-like 2)	Q9D1G0	Mus musculus (Mouse)	8	7	-3,51	0,09	0,001	0,007
CD209 antigen-like protein B (DC-SIGN-related protein 1) (DC-SIGNR1) (OtB7) (CD antigen CD209)	Q8CJ91	Mus musculus (Mouse)	8	7	-3,51	0,09	0,000	0,000
Glutathione hydrolase 1 proenzyme (EC 3.4.19.13) (Gamma-glutamyltransferase 1) (Gamma-glutamyltranspeptidase 1) (GGT 1) (EC 2.3.2.2) (Leukotriene-C4 hydrolase) (EC 3.4.19.14) (CD antigen CD224) [Cleaved into: Glutathione hydrolase 1 heavy chain	P19440;Q60928	Homo sapiens (Human); Mus musculus (Mouse)	8	7	-3,50	0,09	0,000	0,002
Periplakin	Q9R269	Mus musculus (Mouse)	8	7	-3,48	0,09	0,004	0,020
Ephrin-A5 (AL-1) (EPH-related receptor tyrosine kinase ligand 7) (LERK-7)	O08543;P52803	Mus musculus (Mouse);Homo sapiens (Human)	8	7	-3,47	0,09	0,000	0,003
Epiplakin	Q8R0W0	Mus musculus (Mouse)	8	7	-3,47	0,09	0,005	0,024
Glutathione S-transferase A4 (EC 2.5.1.18) (GST A4-4) (GSTA4-4) (GST class-alpha member 4) (Glutathione S-transferase 5.7) (GST 5.7)	P24472;P30115	Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-3,47	0,09	0,003	0,018
NmrA-like family domain-containing protein 1	Q8K2T1;Q9HBL8	Mus musculus (Mouse);Homo sapiens (Human)	8	7	-3,46	0,09	0,003	0,016

Dual specificity protein phosphatase 14 (EC 3.1.3.16) (EC 3.1.3.48) (MKP-1-like protein tyrosine phosphatase) (MKP-L) (Mitogen-activated protein kinase phosphatase 6) (MAP kinase phosphatase 6) (MKP-6)	O95147;Q9JLY7	Homo sapiens (Human); Mus musculus (Mouse)	8	7	-3,43	0,09	0,000	0,002
Melanoma-associated antigen E1 (Alpha-dystrobrevin-associated MAGE Protein) (DAMAGE) (MAGE-E1 antigen)	Q6PCZ4	Mus musculus (Mouse)	8	7	-3,37	0,10	0,003	0,016
Beta-galactosidase-1-like protein 2 (EC 3.2.1.-)	Q3UPY5	Mus musculus (Mouse)	8	7	-3,36	0,10	0,000	0,003
Arylsulfatase L (EC 3.1.6.1) (Arylsulfatase E) (ASE)	P51690	Homo sapiens (Human)	8	7	-3,35	0,10	0,003	0,017
Laminin subunit beta-3 (Epiligrin subunit bata) (Kalinin B1 chain) (Kalinin subunit beta) (Laminin-5 subunit beta) (Nicein subunit beta)	Q61087	Mus musculus (Mouse)	8	7	-3,35	0,10	0,000	0,001
Annexin A9 (Annexin XXXI) (Annexin-31) (Annexin-9)	Q9JHQ0	Mus musculus (Mouse)	8	7	-3,35	0,10	0,003	0,018
Laminin subunit gamma-2 (Epiligrin subunit gamma) (Kalinin subunit gamma) (Kalinin/nicein/epiligrin 100 kDa subunit) (Laminin B2t chain) (Laminin-5 subunit gamma) (Nicein subunit gamma)	Q61092	Mus musculus (Mouse)	8	7	-3,33	0,10	0,000	0,002
Alcohol dehydrogenase 6B (class V)	A0A1D5RMB0;E9Q5Z6	Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-3,31	0,10	0,008	0,032
Tumor-associated calcium signal transducer 2 (Cell surface glycoprotein Trop-2)	Q8BGV3	Mus musculus (Mouse)	8	7	-3,31	0,10	0,006	0,026
Protein phosphatase 1 regulatory subunit 14A (17 kDa PKC-potentiated inhibitory protein of PP1) (Protein kinase C-potentiated inhibitor protein of 17 kDa) (CPI-17)	Q91VC7	Mus musculus (Mouse)	8	7	-3,28	0,10	0,001	0,008
Fibulin-7 (FIBL-7) (Protein TM14)	Q501P1	Mus musculus (Mouse)	8	7	-3,25	0,11	0,000	0,001

ATP-binding cassette sub-family A member 6 (EC 7.6.2.-)	Q8K441	Mus musculus (Mouse)	8	7	-3,25	0,11	0,000	0,002
Ras-related protein Rab-25	Q9WTL2	Mus musculus (Mouse)	8	7	-3,24	0,11	0,004	0,019
RIKEN cDNA 9530053A07 gene	E9PVG8;E 9Q9C6	Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-3,22	0,11	0,000	0,004
Major urinary protein 2 (MUP 2)	P11589;P 11591	Mus musculus (Mouse); Mus musculus (Mouse)	8	7	-3,20	0,11	0,000	0,000
Growth factor receptor-bound protein 14 (GRB14 adapter protein)	Q14449	Homo sapiens (Human) Mus musculus	8	7	-3,20	0,11	0,000	0,001
Ferroxidase HEPHL1 (EC 1.16.3.1) (Hephaestin-like protein 1)	Q3V1H3;Q 6MZM0	(Mouse);H omo sapiens (Human) Mus	8	7	-3,20	0,11	0,007	0,030
Lysozyme g-like protein 2 (EC 3.2.1.-)	Q3V1I0	Mus musculus (Mouse)	8	7	-3,19	0,11	0,001	0,009
Complement component 7	D3YXF5	Mus musculus (Mouse)	8	7	-3,19	0,11	0,000	0,005
Hydroxymethylglutaryl-CoA synthase, cytoplasmic (HMG-CoA synthase) (EC 2.3.3.10) (3-hydroxy-3-methylglutaryl coenzyme A synthase)	Q8JZK9	Mus musculus (Mouse)	8	7	-3,18	0,11	0,009	0,036
Carcinoembryonic antigen-related cell adhesion molecule 5 (Carcinoembryonic antigen) (CEA) (Meconium antigen 100) (CD antigen CD66e)	P06731	Homo sapiens (Human)	8	7	-3,18	0,11	0,000	0,004

Smoothelin	P53814;Q921U8	Homo sapiens (Human); Mus musculus (Mouse)	8	7	-3,17	0,11	0,000	0,001
Resistin (Adipose tissue-specific secretory factor) (ADSF) (Adipose-specific cysteine-rich secreted protein A12-alpha) (Cysteine-rich secreted protein FIZZ3)	Q99P87	Mus musculus (Mouse)	8	7	-3,17	0,11	0,000	0,003
Phosphoethanolamine/phosphocholine phosphatase (EC 3.1.3.75)	Q8R2H9	Mus musculus (Mouse)	8	7	-3,17	0,11	0,004	0,020
Laminin subunit alpha-3 (Epiligrin 170 kDa subunit) (E170) (Epiligrin subunit alpha) (Kalinin subunit alpha) (Laminin-5 subunit alpha) (Laminin-6 subunit alpha) (Laminin-7 subunit alpha) (Nicein subunit alpha)	Q16787;Q61789	Homo sapiens (Human); Mus musculus (Mouse)	8	7	-3,17	0,11	0,001	0,008

Top 100 hits upregulated in T-47D Trop-2 tumor xenografts compared to WT

Description	Acessions	Organism	KO2 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
UBX domain-containing protein 2A (UBX domain-containing protein 4)	P68543	Homo sapiens (Human)	6	7	4,15	17,78	0,000	0,041
Matrix metalloproteinase-14 (MMP-14) (EC 3.4.24.80) (MMP-X1) (Membrane-type matrix metalloproteinase 1) (MT-MMP 1) (MTMMP1) (Membrane-type-1 matrix metalloproteinase) (MT1-MMP) (MT1MMP)	P50281	Homo sapiens (Human)	6	7	3,70	13,04	0,000	0,000
Stimulator of interferon genes protein (hSTING) (Endoplasmic reticulum interferon stimulator) (ERIS) (Mediator of IRF3 activation) (hMITA) (Transmembrane protein 173)	Q86WV6	Homo sapiens (Human)	6	7	3,42	10,71	0,000	0,000
Chondroitin sulfate N-acetylgalactosaminyltransferase 1 (CsGalNAcT-1) (EC 2.4.1.174) (Chondroitin beta-1,4-N-acetylgalactosaminyltransferase 1) (Beta4GalNAcT-1)	Q8BJQ9;Q8C1F4;Q8N6G5	Mus musculus (Mouse);Homo sapiens (Human)	6	7	3,35	10,18	0,000	0,004
Glypican-4 (K-glypican) [Cleaved into: Secreted glypican-4]	O75487	Homo sapiens (Human)	6	7	3,35	10,16	0,000	0,030
Cytokine receptor-like factor 1 (Cytokine receptor-like molecule 3) (CRLM-3) (Cytokine-like factor 1) (CLF-1) (Novel cytokine receptor 6) (NR6)	Q9JM58	Mus musculus (Mouse)	6	7	3,32	9,95	0,000	0,003
Aquaporin-11 (AQP-11)	Q8BHH1;Q8NBQ7	Mus musculus (Mouse);Homo sapiens (Human)	6	7	3,30	9,87	0,000	0,011

Ubiquitin-conjugating enzyme E2 D3 (EC 2.3.2.23) ((E3-independent) E2 ubiquitin-conjugating enzyme D3) (EC 2.3.2.24) (E2 ubiquitin-conjugating enzyme D3) (Ubiquitin carrier protein D3) (Ubiquitin-conjugating enzyme E2(17)KB 3) (Ubiquitin-conjugating enzyme E2-17 kDa 3) (Ubiquitin-protein ligase D3)	P61077;P61079;P62837;P62838	Homo sapiens (Human); Mus musculus (Mouse); Homo sapiens (Human); Mus musculus (Mouse)	6	7	3,15	8,86	0,001	0,047
CMP-sialic acid transporter (CMP-SA-Tr) (CMP-Sia-Tr) (CST) (Solute carrier family 35 member A1)	P78382;Q61420	Homo sapiens (Human); Mus musculus (Mouse)	6	7	3,04	8,22	0,000	0,023
Acyl-CoA synthetase short-chain family member 3, mitochondrial (EC 6.2.1.1) (Acetate--CoA ligase 3) (Acyl-CoA synthetase short-chain family member 3) (Propionate--CoA ligase) (EC 6.2.1.17)	Q9H6R3	Homo sapiens (Human); Mus musculus (Mouse)	6	7	2,99	7,96	0,000	0,000
Centrosomal protein of 131 kDa (5-azacytidine-induced protein 1) (Pre-acrosome localization protein 1)	Q62036;Q9UPN4	Homo sapiens (Human); Homo sapiens (Human)	6	7	2,99	7,92	0,000	0,002
G-protein-signaling modulator 1 (Activator of G-protein signaling 3)	Q86YR5	Homo sapiens (Human)	6	7	2,85	7,21	0,000	0,007
Uridine diphosphate glucose pyrophosphatase NUDT14 (UDPG pyrophosphatase) (UGPPase) (EC 3.6.1.45) (Nucleoside diphosphate-linked moiety X motif 14) (Nudix motif 14)	O95848	Homo sapiens (Human)	6	7	2,69	6,43	0,000	0,002
Queuosine 5'-phosphate N-glycosylase/hydrolase (EC 3.2.2.-) (Q-nucleotide N-glycosylase 1) (Queuine salvage protein QNG1) (Queuosine-nucleotide N-glycosylase/hydrolase)	Q5T6V5	Homo sapiens (Human)	6	7	2,62	6,13	0,000	0,016
Nephronectin (Preosteoblast EGF-like repeat protein with MAM domain) (Protein EGFL6-like)	Q6UXI9	Homo sapiens (Human)	6	7	2,55	5,85	0,001	0,049

Interferon-induced transmembrane protein 3 (Dispanin subfamily A member 2b) (DSPA2b) (Interferon-inducible protein 1-8U)	Q01628	Homo sapiens (Human)	6	7	2,55	5,84	0,000	0,000
CCN family member 1 (3CH61) (Cellular communication network factor 1) (Cysteine-rich angiogenic inducer 61) (Insulin-like growth factor-binding protein 10) (IBP-10) (IGF-binding protein 10) (IGFBP-10) (Protein CYR61)	P18406	Mus musculus (Mouse)	6	7	2,53	5,78	0,000	0,034
Protein shisa-2 homolog (Transmembrane protein 46)	Q6UWI4; Q8QZV2	Homo sapiens (Human); Mus musculus (Mouse)	6	7	2,41	5,31	0,000	0,006
Rab-like protein 2B	Q9UNT1	Homo sapiens (Human)	6	7	2,31	4,96	0,000	0,026
G patch domain-containing protein 2	Q9NW75	Homo sapiens (Human)	6	7	2,28	4,85	0,000	0,033
Pleckstrin-2	Q9NYT0	Homo sapiens (Human)	6	7	2,23	4,70	0,000	0,026
Alpha-L-iduronidase (EC 3.2.1.76)	P35475	Homo sapiens (Human)	6	7	2,14	4,41	0,000	0,000
Microtubule-associated protein 9 (Aster-associated protein)	Q49MG5	Homo sapiens (Human)	6	7	2,11	4,33	0,001	0,050
Protein KTI12 homolog	Q9D1R2	Mus musculus (Mouse)	6	7	2,06	4,17	0,000	0,041
Transmembrane protein 45B	Q96B21	Homo sapiens (Human)	6	7	2,05	4,15	0,000	0,022
14 kDa phosphohistidine phosphatase (EC 3.9.1.3) (Phosphohistidine phosphatase 1) (PHPT1) (Protein histidine phosphatase) (PHP) (Protein janus-A homolog)	Q9NRX4	Homo sapiens (Human)	6	7	2,04	4,13	0,000	0,020
FH1/FH2 domain-containing protein 3 (Formin homolog overexpressed in spleen 2) (mFHOS2)	Q76LL6	Mus musculus (Mouse)	6	7	2,00	3,99	0,000	0,001

StAR-related lipid transfer protein 5 (START domain-containing protein 5) (StARD5)	Q9NSY2	Homo sapiens (Human)	6	7	1,99	3,97	0,001	0,049
Beta-hexosaminidase subunit alpha (EC 3.2.1.52) (Beta-N-acetylhexosaminidase subunit alpha) (Hexosaminidase subunit A) (N-acetyl-beta-glucosaminidase subunit alpha)	P06865	Homo sapiens (Human)	6	7	1,85	3,61	0,000	0,000
Galactose-1-phosphate uridylyltransferase (Gal-1-P uridylyltransferase) (EC 2.7.7.12) (UDP-glucose--hexose-1-phosphate uridylyltransferase)	P07902	Homo sapiens (Human)	6	7	1,84	3,58	0,000	0,033
C-type lectin domain family 2 member B (Activation-induced C-type lectin) (C-type lectin superfamily member 2) (IFN-alpha-2b-inducing-related protein 1)	Q92478	Homo sapiens (Human)	6	7	1,84	3,58	0,000	0,011
TBC1 domain family member 13	Q9NVG8	Homo sapiens (Human)	6	7	1,84	3,57	0,000	0,028
Collagen alpha-1(XII) chain	Q99715	Homo sapiens (Human)	6	7	1,83	3,55	0,000	0,010
Midkine (MK) (Amphiregulin-associated protein) (ARAP) (Midgestation and kidney protein) (Neurite outgrowth-promoting factor 2) (Neurite outgrowth-promoting protein)	P21741	Homo sapiens (Human)	6	7	1,82	3,52	0,000	0,013
Soluble lamin-associated protein of 75 kDa (SLAP75) (Protein FAM169A)	Q9Y6X4	Homo sapiens (Human)	6	7	1,76	3,39	0,000	0,002
N-acetylneuraminate 9-O-acetyltransferase (EC 2.3.1.45) (CAS1 domain-containing protein 1) (Sialate O-acetyltransferase) (SOAT)	Q7TN73;Q96PB1	Mus musculus (Mouse);Homo sapiens (Human)	6	7	1,73	3,32	0,000	0,023
Pleckstrin homology domain-containing family G member 4B (PH domain-containing family G member 4B)	Q96PX9	Homo sapiens (Human)	6	7	1,72	3,29	0,000	0,009
Solute carrier family 12 member 7 (Electroneutral potassium-chloride cotransporter 4) (K-Cl cotransporter 4)	Q9Y666	Homo sapiens (Human)	6	7	1,71	3,28	0,000	0,005
Epidermal growth factor-like protein 7 (EGF-like protein 7) (Multiple epidermal growth factor-like domains protein 7) (Multiple EGF-like domains protein 7) (NOTCH4-like protein) (Vascular endothelial statin) (VE-statin) (Zneu1)	Q9UHF1	Homo sapiens (Human)	6	7	1,70	3,25	0,000	0,029

Kinesin-like protein KIF7	B7ZNG0	Mus musculus (Mouse)	6	7	1,68	3,21	0,000	0,027
MIT domain-containing protein 1	Q8WV92	Homo sapiens (Human)	6	7	1,63	3,09	0,001	0,047
Ras GTPase-activating-like protein IQGAP2	Q13576	Homo sapiens (Human)	6	7	1,55	2,93	0,000	0,029
Attractin (DPPT-L) (Mahogany homolog)	O75882	Homo sapiens (Human)	6	7	1,48	2,79	0,000	0,041
Insulin-like growth factor-binding protein 2 (IBP-2) (IGF-binding protein 2) (IGFBP-2)	P18065;P47877	Homo sapiens (Human); Mus musculus (Mouse)	6	7	1,47	2,76	0,000	0,009
Serine racemase (EC 5.1.1.18) (D-serine ammonia-lyase) (D-serine dehydratase) (EC 4.3.1.18) (L-serine ammonia-lyase) (L-serine dehydratase) (EC 4.3.1.17)	Q9GZT4	Homo sapiens (Human)	6	7	1,44	2,72	0,001	0,047
Selenocysteine insertion sequence-binding protein 2 (SECIS-binding protein 2)	Q96T21	Homo sapiens (Human)	6	7	1,43	2,70	0,000	0,022
Tripartite motif-containing protein 14	Q14142	Homo sapiens (Human)	6	7	1,43	2,69	0,001	0,047
Biotinidase (Biotinase) (EC 3.5.1.12)	P43251	Homo sapiens (Human)	6	7	1,41	2,66	0,000	0,003
Protein Mis18-alpha (FAPP1-associated protein 1)	Q9NYP9	Homo sapiens (Human)	6	7	1,40	2,64	0,000	0,040
GEM-interacting protein (GMIP)	Q9P107	Homo sapiens (Human)	6	7	1,37	2,58	0,000	0,037
Probable serine carboxypeptidase CPVL (EC 3.4.16.-) (Carboxypeptidase, vitellogenic-like) (Vitellogenic carboxypeptidase-like protein) (VCP-like protein) (hVLP)	Q9H3G5	Homo sapiens (Human)	6	7	1,36	2,56	0,000	0,009

Bardet-Biedl syndrome 4 protein	Q96RK4	Homo sapiens (Human)	6	7	1,34	2,53	0,000	0,015
Histone RNA hairpin-binding protein (Histone stem-loop-binding protein)	Q14493	Homo sapiens (Human)	6	7	1,33	2,52	0,000	0,025
Cytohesin-2 (ARF exchange factor) (ARF nucleotide-binding site opener) (Protein ARNO) (PH, SEC7 and coiled-coil domain-containing protein 2)	Q99418	Homo sapiens (Human)	6	7	1,31	2,47	0,000	0,025
Tyrosine-protein phosphatase non-receptor type 21 (EC 3.1.3.48) (Protein-tyrosine phosphatase D1)	Q16825	Homo sapiens (Human)	6	7	1,29	2,45	0,000	0,039
Pyruvate carboxylase, mitochondrial (EC 6.4.1.1) (Pyruvic carboxylase) (PCB)	P11498	Homo sapiens (Human)	6	7	1,29	2,44	0,000	0,013
Maestro heat-like repeat-containing protein family member 1 (HEAT repeat-containing protein 7A)	Q8NDA8	Homo sapiens (Human)	6	7	1,28	2,44	0,000	0,011
XIAP-associated factor 1 (BIRC4-binding protein)	Q6GPH4	Homo sapiens (Human)	6	7	1,28	2,43	0,000	0,042
Protein Daple (Coiled-coil domain-containing protein 88C) (Dvl-associating protein with a high frequency of leucine residues) (hDaple) (Hook-related protein 2) (HkRP2)	Q9P219	Homo sapiens (Human)	6	7	1,25	2,38	0,000	0,033
Lysophosphatidylcholine acyltransferase 1 (LPC acyltransferase 1) (LPCAT-1) (LysoPC acyltransferase 1) (EC 2.3.1.23) (1-acylglycerol-3-phosphate O-acyltransferase) (EC 2.3.1.51) (1-acylglycerophosphocholine O-acyltransferase) (1-alkenylglycerophosphocholine O-acyltransferase) (EC 2.3.1.25) (1-alkylglycerophosphocholine O-acetyltransferase) (EC 2.3.1.67) (Acetyl-CoA:lyso-platelet-activating factor acetyltransferase) (Acetyl-CoA:lyso-PAF acetyltransferase) (Lyso-PAF acetyltransferase) (LysoPAFAT) (Acyltransferase-like 2) (Phosphonoformate immuno-associated protein 3)	Q8NF37	Homo sapiens (Human)	6	7	1,24	2,36	0,000	0,005
Protein angel homolog 2	Q5VTE6	Homo sapiens (Human)	6	7	1,23	2,34	0,000	0,028
Tudor domain-containing protein 7 (PCTAIRE2-binding protein) (Tudor repeat associator with PCTAIRE-2) (Trap)	Q8NHU6	Homo sapiens (Human)	6	7	1,22	2,33	0,000	0,033

F-box only protein 4	Q9UKT5	Homo sapiens (Human)	6	7	1,22	2,33	0,000	0,001
Cysteine and glycine-rich protein 2 (Cysteine-rich protein 2) (CRP2) (Double LIM protein 1) (DLP-1)	P97314;Q16527	Mus musculus (Mouse);Homo sapiens (Human)	6	7	1,20	2,29	0,000	0,037
Regulator of microtubule dynamics protein 2 (RMD-2) (mRMD-2) (Protein FAM82A1)	Q8BSE0;Q96LZ7	Mus musculus (Mouse);Homo sapiens (Human)	6	7	1,19	2,28	0,000	0,042
Transmembrane protein 62	Q0P6H9	Homo sapiens (Human)	6	7	1,17	2,25	0,000	0,026
ZZ-type zinc finger-containing protein 3	Q8IYH5	Homo sapiens (Human)	6	7	1,16	2,24	0,000	0,013
Adenosine 3'-phospho 5'-phosphosulfate transporter 1 (PAPS transporter 1) (Putative MAPK-activating protein PM15) (Putative NF-kappa-B-activating protein 48) (Solute carrier family 35 member B2)	Q8TB61	Homo sapiens (Human)	6	7	1,15	2,23	0,000	0,013
Golgi-associated RAB2 interactor protein 1A	Q6NXP2	Homo sapiens (Human)	6	7	1,15	2,22	0,000	0,034
5'-deoxynucleotidase HDDC2 (EC 3.1.3.89) (HD domain-containing protein 2)	Q3SXD3;Q7Z4H3	Mus musculus (Mouse);Homo sapiens (Human)	6	7	1,15	2,22	0,000	0,013
Solute carrier family 12 member 7 (Electroneutral potassium-chloride cotransporter 4) (K-Cl cotransporter 4)	Q9WVL3;Q9Y666	Mus musculus (Mouse);Homo sapiens (Human)	6	7	1,12	2,18	0,000	0,003

Transmembrane channel-like protein 4	Q7Z404	Homo sapiens (Human)	6	7	1,10	2,15	0,001	0,046
Wolframin	O76024	Homo sapiens (Human)	6	7	1,10	2,14	0,000	0,033
IgG receptor FcRn large subunit p51 (FcRn) (IgG Fc fragment receptor transporter alpha chain) (Neonatal Fc receptor)	P55899	Homo sapiens (Human)	6	7	1,08	2,12	0,000	0,013
Prostaglandin E synthase 2 (EC 5.3.99.3) (GATE-binding factor 1) (GBF-1) (Microsomal prostaglandin E synthase 2) (mPGES-2) [Cleaved into: Prostaglandin E synthase 2 truncated form]	Q8BWM0; Q9H7Z7	Mus musculus (Mouse); Homo sapiens (Human)	6	7	1,08	2,11	0,000	0,033
Fibulin-2 (FIBL-2)	P37889	Mus musculus (Mouse)	6	7	1,07	2,10	0,000	0,026
Tyrosyl-DNA phosphodiesterase 1 (Tyr-DNA phosphodiesterase 1) (EC 3.1.4.-)	Q9NUW8	Homo sapiens (Human)	6	7	1,05	2,07	0,001	0,046
Sperm surface protein Sp17 (Cancer/testis antigen 22) (CT22) (Sp17-1) (Sperm autoantigenic protein 17) (Sperm protein 17)	Q15506	Homo sapiens (Human)	6	7	1,05	2,07	0,000	0,034
Synapse-associated protein 1 (BSD domain-containing signal transducer and Akt interactor protein) (BSTA)	Q96A49; Q9D5V6	Homo sapiens (Human); Mus musculus (Mouse)	6	7	1,05	2,07	0,001	0,049
PDZ and LIM domain protein 7 (LIM mineralization protein) (LMP) (Protein enigma)	Q9NR12	Homo sapiens (Human)	6	7	1,04	2,06	0,000	0,028
Uncharacterized protein C9orf152	Q5JTZ5	Homo sapiens (Human)	6	7	1,04	2,05	0,000	0,011

Top 100 hits downregulated in T-47D Trop-2 tumor xenografts

Description	Acessions	Organism	KO2 repl.	WT repl.	logFC	FC	P.Value	adj.P.Val
L-lactate dehydrogenase B chain (LDH-B) (EC 1.1.1.27) (LDH heart subunit) (LDH-H) (Renal carcinoma antigen NY-REN-46)	P07195	Homo sapiens (Human)	6	7	-8,03	0,00	0,000	0,000
Tumor-associated calcium signal transducer 2 (Cell surface glycoprotein Trop-2) (Membrane component chromosome 1 surface marker 1) (Pancreatic carcinoma marker protein GA733-1)	P09758	Homo sapiens (Human)	6	7	-6,55	0,01	0,000	0,000
Putative testis-expressed protein 13C	A0A0J9YWL9	Homo sapiens (Human)	6	7	-4,93	0,03	0,000	0,003
Melanoma-associated antigen B2 (Cancer/testis antigen 3.2) (CT3.2) (DSS-AHC critical interval MAGE superfamily 6) (DAM6) (MAGE XP-2 antigen) (MAGE-B2 antigen)	O15479	Homo sapiens (Human)	6	7	-4,31	0,05	0,000	0,022
Metastasis-associated protein MTA2 (Metastasis-associated 1-like 1) (MTA1-L1 protein) (p53 target protein in deacetylase complex)	O94776;Q924K8;Q9BTC8;Q9R190	Homo sapiens (Human); Mus musculus (Mouse);Homo sapiens (Human); Mus musculus (Mouse)	6	7	-3,83	0,07	0,000	0,041
Twist-related protein 1 (M-twist)	P26687	Mus musculus (Mouse)	6	7	-3,67	0,08	0,000	0,013

trRNA methyltransferase 10 homolog C (mitochondrial ribonuclease P protein 1) (Mitochondrial RNase P protein 1) (RNA (guanine-9-)-methyltransferase domain-containing protein 1) (mRNA methyladenosine-N(1)-methyltransferase) (EC 2.1.1.-) (tRNA (adenine(9)-N(1))-methyltransferase) (EC 2.1.1.218) (tRNA (guanine(9)-N(1))-methyltransferase) (EC 2.1.1.221)	Q3UFY8	Mus musculus (Mouse)	6	7	-3,07	0,12	0,000	0,015
Ribonuclease P protein subunit p38 (RNaseP protein p38)	P78345;Q80UU2	Homo sapiens (Human); Mus musculus (Mouse)	6	7	-3,04	0,12	0,000	0,030
Lymphocyte antigen 6 complex, locus G6G	A0A087W RX0	Mus musculus (Mouse)	6	7	-2,75	0,15	0,001	0,045
Forkhead box protein N3 (Checkpoint suppressor 1)	Q499D0;Q92949;Q9ES18	Mus musculus (Mouse);Homo sapiens (Human); Mus musculus (Mouse)	6	7	-2,61	0,16	0,000	0,022
Calcium-activated chloride channel regulator 2 (EC 3.4.-.-) (Calcium-activated chloride channel family member 2) (hCLCA2) (Calcium-activated chloride channel protein 3) (CaCC-3) (hCaCC-3) [Cleaved into: Calcium-activated chloride channel regulator 2, 109	Q9UQC9	Homo sapiens (Human)	6	7	-2,46	0,18	0,000	0,028
Protein S100-A4 (Calvasculin) (Metastasin) (Placental calcium-binding protein) (Protein Mts1) (S100 calcium-binding protein A4)	P26447	Homo sapiens (Human)	6	7	-2,15	0,22	0,000	0,002
Collagen alpha-1(I) chain (Alpha-1 type I collagen)	P02452	Homo sapiens (Human)	6	7	-2,08	0,24	0,001	0,047

Radixin	P35241	Homo sapiens (Human)	6	7	-1,92	0,26	0,000	0,022
Insulin-like growth factor 2 mRNA-binding protein 3 (IGF2 mRNA-binding protein 3) (IMP-3) (IGF-II mRNA-binding protein 3) (KH domain-containing protein overexpressed in cancer) (hKOC) (VICKZ family member 3)	O00425;Q9CPN8	Homo sapiens (Human); Mus musculus (Mouse)	6	7	-1,80	0,29	0,000	0,020
Dimethylaniline monooxygenase [N-oxide-forming] 4 (EC 1.14.13.8) (Dimethylaniline oxidase 4) (Hepatic flavin-containing monooxygenase 4) (FMO 4)	P31512	Homo sapiens (Human)	6	7	-1,55	0,34	0,000	0,039
Protein S100-A4 (Metastasin) (Metastatic cell protein) (PEL98) (Placental calcium-binding protein) (Protein 18A2) (Protein Mts1) (S100 calcium-binding protein A4)	P07091;P26447	Mus musculus (Mouse);Homo sapiens (Human)	6	7	-1,50	0,35	0,000	0,016
L-lactate dehydrogenase B chain (LDH-B) (EC 1.1.1.27) (LDH heart subunit) (LDH-H) (Renal carcinoma antigen NY-REN-46)	P07195;P16125	Homo sapiens (Human); Mus musculus (Mouse)	6	7	-1,50	0,35	0,000	0,013
Three-prime repair exonuclease 1 (EC 3.1.11.2) (3'-5' exonuclease TREX1) (Deoxyribonuclease III) (DNase III)	Q9NSU2	Homo sapiens (Human)	6	7	-1,47	0,36	0,000	0,013
Gastrotropin (GT) (Fatty acid-binding protein 6) (Ileal lipid-binding protein) (ILBP) (Intestinal 15 kDa protein) (I-15P) (Intestinal bile acid-binding protein) (I-BABP)	P51161	Homo sapiens (Human)	6	7	-1,47	0,36	0,000	0,011

Retinol dehydrogenase 16 (EC 1.1.1.105) (EC 1.1.1.209) (EC 1.1.1.315) (EC 1.1.1.53) (Human epidermal retinol dehydrogenase) (hRDH-E) (Microsomal NAD(+)-dependent retinol dehydrogenase 4) (RoDH-4) (Short chain	O75452	Homo sapiens (Human)	6	7	-1,31	0,40	0,000	0,028
Centrosomal protein of 97 kDa (Cep97) (Leucine-rich repeat and IQ domain-containing protein 2)	Q9CZ62	Mus musculus (Mouse)	6	7	-1,26	0,42	0,000	0,042
Mitochondrial peptide methionine sulfoxide reductase (EC 1.8.4.11) (Peptide-methionine (S)-S-oxide reductase) (Peptide Met(O) reductase) (Protein-methionine-S-oxide reductase)	Q9UJ68	Homo sapiens (Human)	6	7	-1,26	0,42	0,000	0,007
Retinol dehydrogenase 16 (EC 1.1.1.105) (EC 1.1.1.209) (EC 1.1.1.315) (EC 1.1.1.53) (Human epidermal retinol dehydrogenase) (hRDH-E) (Microsomal NAD(+)-dependent retinol dehydrogenase 4) (RoDH-4) (Short chain dehydrogenase/reductase family 9C member 8) (Sterol/retinol dehydrogenase)	O75452;O88451	Homo sapiens (Human); Mus musculus (Mouse)	6	7	-1,23	0,42	0,000	0,032
Sorting nexin-15	Q91WE1	Mus musculus (Mouse)	6	7	-1,16	0,45	0,001	0,050
Oxysterol-binding protein-related protein 9 (ORP-9) (OSBP-related protein 9)	A2A8Z1	Mus musculus (Mouse)	6	7	-1,09	0,47	0,001	0,049
Laminin subunit gamma-1 (Laminin B2 chain) (Laminin-1 subunit gamma) (Laminin-10 subunit gamma) (Laminin-11 subunit gamma) (Laminin-2 subunit gamma) (Laminin-3 subunit gamma) (Laminin-4 subunit gamma) (Laminin-6 subunit gamma) (Laminin-7 subunit gamma) (Laminin-8 subunit gamma) (Laminin-9 subunit gamma) (Laminin subunit gamma) (Laminin gamma)	P11047	Homo sapiens (Human)	6	7	-1,05	0,48	0,001	0,046
Bis(5'-adenosyl)-triphosphatase (EC 3.6.1.29) (AP3A hydrolase) (AP3Aase) (Adenosine 5'-monophosphoramidase FHIT) (EC 3.9.1.-) (Adenylylsulfatase) (EC 3.6.2.1) (Adenylylsulfate-ammonia adenylyltransferase) (EC 2.7.7.51) (Diadenosine 5',5'''-P1,P3-triphosphate hydrolase) (Dinucleosidetriphosphatase) (Fragile histidine triad protein)	O89106;P49789	Mus musculus (Mouse);Homo sapiens (Human)	6	7	-1,05	0,48	0,000	0,015

Cilia- and flagella-associated protein 91 (CFAP91) (AMY-1-associating protein expressed in testis 1) (AAT-1) (MYCBP/AMY-1-associated testis-expressed protein 1) (Protein MAATS1) Q7Z4T9	Homo sapiens (Human)	6	7	-1,03	0,49	0,000	0,037
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