

#Pathway	Count	(401Pathway	ILLevel 1	Level 2	Genes	KOs
Metabolic	949	ko01100	Metabolism	Global	andB1645-1BGL	K01749+K01719+K02496
Biosynthes	373	ko01110	Metabolism	Global	andB1645-1BGL	K01749+K01719+K02496
Microbial	369	ko01120	Metabolism	Global	andB1645-1BGL	K01595+K00297+K01607
ABC transp	316	ko02010	Environmen	Membrane	tB1645-1BGL	K09815+K10559+K10562
Biosynthes	268	ko01130	Metabolism	Global	andB1645-1BGL	K00053+K01754+K01687
Biosynthes	167	ko01230	Metabolism	Global	andB1645-1BGL	K00053+K01754+K01687
Two-compon	155	ko02020	Environmen	Signal	traB1645-1BGL	K07720+K07662+K07640
Carbon met	148	ko01200	Metabolism	Global	andB1645-1BGL	K01754+K01595+K00297
Quorum sen	101	ko02024	Cellular F	Cellular	cB1645-1BGL	K03217+K18139+K11530
Purine met	99	ko00230	Metabolism	Nucleotide	B1645-1BGL	K01524+K02335+K02338
Pyrimidine	74	ko00240	Metabolism	Nucleotide	B1645-1BGL	K02335+K02338+K01489
Phosphotra	73	ko02060	Environmen	Membrane	tB1645-1BGL	K02821+K03475+K02822
Starch and	72	ko00500	Metabolism	Carbohydra	B1645-1BGL	K02749+K02750+K01232
Glycolysis	68	ko00010	Metabolism	Carbohydra	B1645-1BGL	K00850+K00001+K01624
Pyruvate n	63	ko00620	Metabolism	Carbohydra	B1645-1BGL	K01595+K00101+K01610
Amino suga	60	ko00520	Metabolism	Carbohydra	B1645-1BGL	K02472+K01791+K04042
Fructose a	60	ko00051	Metabolism	Carbohydra	B1645-1BGL	K00850+K00848+K01813
Ribosome	56	ko03010	Genetic In	Translatic	B1645-1BGL	K02909+K02914+K02902
Pentose ph	56	ko00030	Metabolism	Carbohydra	B1645-1BGL	K00850+K01624+K00852
Degradatic	54	ko01220	Metabolism	Global	andB1645-1BGL	K01607+K00001+K01053
Biofilm fc	53	ko02026	Cellular F	Cellular	cB1645-1BGL	K04761+K00694+K00975
Cysteine a	52	ko00270	Metabolism	Amino acid	B1645-1BGL	K00826+K12525+K01739
Glycine, s	52	ko00260	Metabolism	Amino acid	B1645-1BGL	K01754+K12525+K01753
Bacterial	48	ko03070	Environmen	Membrane	tB1645-1BGL	K03217+K03071+K03110
Sulfur met	47	ko00920	Metabolism	Energy met	B1645-1BGL	K01739+K02048+K01011
Oxidative	47	ko00190	Metabolism	Energy met	B1645-1BGL	K02108+K02110+K02109
Pentose an	46	ko00040	Metabolism	Carbohydra	B1645-1BGL	K00848+K01629+K01731
Butanoate	45	ko00650	Metabolism	Carbohydra	B1645-1BGL	K11258+K01652+K01653
Cationic a	42	ko01503	Human Dise	Drug resis	B1645-1BGL	K07662+K07640+K03673
Glyoxylate	42	ko00630	Metabolism	Carbohydra	B1645-1BGL	K00123+K00124+K00127
Arginine a	42	ko00330	Metabolism	Amino acid	B1645-1BGL	K01485+K09251+K12256
Galactose	41	ko00052	Metabolism	Carbohydra	B1645-1BGL	K00850+K07407+K00883
Phenylalan	41	ko00360	Metabolism	Amino acid	B1645-1BGL	K05710+K00529+K01426
Methane me	40	ko00680	Metabolism	Energy met	B1645-1BGL	K01595+K00850+K01624
Benzoate d	40	ko00362	Metabolism	Xenobiotic	B1645-1BGL	K01607+K01055+K05550
2-Oxocarbc	39	ko01210	Metabolism	Global	andB1645-1BGL	K00053+K01687+K00826
Propanoate	37	ko00640	Metabolism	Carbohydra	B1645-1BGL	K00005+K00823+K01961
Fatty acid	36	ko01212	Metabolism	Global	andB1645-1BGL	K09458+K00059+K00647
Carbon fix	35	ko00720	Metabolism	Energy met	B1645-1BGL	K01595+K00297+K01961
Biofilm fc	34	ko05111	Cellular F	Cellular	cB1645-1BGL	K02472+K01791+K00640
Glycerophc	33	ko00564	Metabolism	Lipid meta	B1645-1BGL	K01521+K00057+K00655
Alanine, a	33	ko00250	Metabolism	Amino acid	B1645-1BGL	K01755+K01915+K01914
Nitrogen n	31	ko00910	Metabolism	Energy met	B1645-1BGL	K01915+K00363+K00362
Biotin met	31	ko00780	Metabolism	Metabolism	B1645-1BGL	K08351+K09458+K00059
Aminoacyl-	30	ko00970	Genetic In	Translatic	B1645-1BGL	K01892+K01042+K01878
Homologous	29	ko03440	Genetic In	Replicatic	B1645-1BGL	K04066+K02335+K02338
Peptidogly	29	ko00550	Metabolism	Glycan bic	B1645-1BGL	K01000+K05366+K03814
Phenylalan	29	ko00400	Metabolism	Amino acid	B1645-1BGL	K00891+K01735+K00014
Citrate cy	29	ko00020	Metabolism	Carbohydra	B1645-1BGL	K01610+K00024+K00116
Carbon fix	29	ko00710	Metabolism	Energy met	B1645-1BGL	K01595+K01624+K01803

Fatty acid	28 ko00061	MetabolismLipid metaB1645-1BGLK09458+K00059+K00647
beta-Lacta	28 ko01501	Human DisDrug resisB1645-1BGLK18139+K18138+K03585
Nicotinate	28 ko00760	MetabolismMetabolismB1645-1BGLK00322+K20881+K06989
Arginine b	27 ko00220	MetabolismAmino acidB1645-1BGLK01755+K00930+K00145
Tyrosine m	27 ko00350	MetabolismAmino acidB1645-1BGLK00001+K01826+K00817
Pantothena	27 ko00770	MetabolismMetabolismB1645-1BGLK00053+K01687+K00826
Ascorbate	27 ko00053	MetabolismCarbohydraB1645-1BGLK02821+K03475+K02822
Porphyrin	26 ko00860	MetabolismMetabolismB1645-1BGLK01749+K01719+K02496
Ubiquinone	26 ko00130	MetabolismMetabolismB1645-1BGLK02548+K03185+K18800
Lipopolysa	24 ko00540	MetabolismGlycan bicB1645-1BGLK02527+K02844+K02849
Glutathion	24 ko00480	MetabolismMetabolismB1645-1BGLK00799+K00383+K00681
Mismatch r	24 ko03430	Genetic InReplicaticB1645-1BGLK02338+K01972+K06223
Cell cycle	23 ko04112	Cellular FCell growtB1645-1BGLK02313+K02314+K13590
Folate bic	23 ko00790	MetabolismMetabolismB1645-1BGLK01664+K00796+K01633
DNA replic	22 ko03030	Genetic InReplicaticB1645-1BGLK02335+K02338+K01972
Valine, le	22 ko00290	MetabolismAmino acidB1645-1BGLK00053+K01754+K01687
Lysine bic	21 ko00300	MetabolismAmino acidB1645-1BGLK12525+K00133+K00821
Sulfur rel	21 ko04122	Genetic InFolding, sB1645-1BGLK01011+K04085+K07235
Selenocomp	20 ko00450	MetabolismMetabolismB1645-1BGLK01739+K01042+K01760
Glycerolip	20 ko00561	MetabolismLipid metaB1645-1BGLK00005+K07407+K00864
Protein ex	18 ko03060	Genetic InFolding, sB1645-1BGLK03217+K03071+K03110
Fatty acid	18 ko00071	MetabolismLipid metaB1645-1BGLK00001+K00529+K00626
Thiamine m	18 ko00730	MetabolismMetabolismB1645-1BGLK04487+K00878+K00941
RNA degrad	18 ko03018	Genetic InFolding, sB1645-1BGLK03628+K03732+K00850
Biosynthes	17 ko01040	MetabolismLipid metaB1645-1BGLK00059+K01782+K10806
Riboflavin	17 ko00740	MetabolismMetabolismB1645-1BGLK09474+K02858+K00794
Biofilm fc	17 ko02025	Cellular FCellular cB1645-1BGLK10914+K11903+K03651
Pertussis	16 ko05133	Human DisInfectiousB1645-1BGLK12340+K07345+K07347
Aminobenzc	16 ko00627	MetabolismXenobioticB1645-1BGLK09474+K03863+K01426
Inositol p	16 ko00562	MetabolismCarbohydraB1645-1BGLK01803+K01092+K16044
One carbon	16 ko00670	MetabolismMetabolismB1645-1BGLK00297+K00604+K01934
Histidine	15 ko00340	MetabolismAmino acidB1645-1BGLK01590+K00128+K11755
Tryptophan	15 ko00380	MetabolismAmino acidB1645-1BGLK01426+K00626+K01782
Streptomyc	15 ko00521	MetabolismBiosynthesB1645-1BGLK01790+K00845+K01092
Bacterial	15 ko02030	Cellular FCell motilB1645-1BGLK10439+K02557+K12368
Xylene deg	14 ko00622	MetabolismXenobioticB1645-1BGLK05550+K10619+K02554
Valine, le	14 ko00280	MetabolismAmino acidB1645-1BGLK00826+K00626+K00632
C5-Branch	14 ko00660	MetabolismCarbohydraB1645-1BGLK11258+K01652+K01653
Base excis	14 ko03410	Genetic InReplicaticB1645-1BGLK02335+K01972+K10563
Lysine deg	14 ko00310	MetabolismAmino acidB1645-1BGLK00626+K01782+K00128
Terpenoid	14 ko00900	MetabolismMetabolismB1645-1BGLK02523+K01823+K00626
Phosphonat	14 ko00440	MetabolismMetabolismB1645-1BGLK05306+K03430+K03823
beta-Alani	13 ko00410	MetabolismMetabolismB1645-1BGLK00823+K01782+K00128
Biosynthes	12 ko01053	MetabolismMetabolismB1645-1BGLK02552+K04783+K04785
Monobactam	11 ko00261	MetabolismBiosynthesB1645-1BGLK12525+K00133+K00957
Vitamin B6	11 ko00750	MetabolismMetabolismB1645-1BGLK03472+K03474+K00868
Cyanoaminc	10 ko00460	MetabolismMetabolismB1645-1BGLK01914+K00681+K00600
Fluorobenz	9 ko00364	MetabolismXenobioticB1645-1BGLK01061+K05550+K05783
Taurine an	9 ko00430	MetabolismMetabolismB1645-1BGLK00681+K13788+K00925
Vancomycin	9 ko01502	Human DisDrug resisB1645-1BGLK01000+K08641+K01775
Nucleotide	8 ko03420	Genetic InReplicaticB1645-1BGLK02335+K01972+K03703

Photosynth	8 ko00195	MetabolismEnergy metB1645-1BGLK02108+K02110+K02109
Chloroalka	8 ko00625	MetabolismXenobioticB1645-1BGLK00001+K00128+K04072
Styrene de	7 ko00643	MetabolismXenobioticB1645-1BGLK01426+K01026+K00446
Plant-path	7 ko04626	OrganismalEnvironmenB1645-1BGLK00864+K12340+K04079
Naphthalen	7 ko00626	MetabolismXenobioticB1645-1BGLK00001+K04072+K00480
Atrazine d	7 ko00791	MetabolismXenobioticB1645-1BGLK01428+K01429+K01430
Biosynthes	7 ko01051	MetabolismMetabolismB1645-1BGLK00615
Dioxin deg	7 ko00621	MetabolismXenobioticB1645-1BGLK02554+K04073+K01666
Polyketide	6 ko00523	MetabolismMetabolismB1645-1BGLK01790+K01710+K00973
Chlorocycl	6 ko00361	MetabolismXenobioticB1645-1BGLK01061+K01561+K00446
Salmonella	6 ko05132	Human DiseaseInfectiousB1645-1BGLK13771+K12265+K12264
Peroxisome	5 ko04146	Cellular FTransport B1645-1BGLK04564+K00477+K04565
Limonene a	5 ko00903	MetabolismMetabolismB1645-1BGLK01782+K00128+K14733
Nitrotolue	5 ko00633	MetabolismXenobioticB1645-1BGLK03518+K10680+K10678
Geraniol d	5 ko00281	MetabolismMetabolismB1645-1BGLK00632+K01782+K01692
D-Glutamin	5 ko00471	MetabolismMetabolismB1645-1BGLK01776+K01425+K00261
Toluene de	5 ko00623	MetabolismXenobioticB1645-1BGLK01061+K03381+K01856
Epithelial	5 ko05120	Human DiseaseInfectiousB1645-1BGLK08303+K01428+K03196
Synthesis	5 ko00072	MetabolismLipid metaB1645-1BGLK00626+K00019+K01029
Novobiocin	5 ko00401	MetabolismBiosynthesB1645-1BGLK14187+K00817+K00813
Neomycin,	5 ko00524	MetabolismBiosynthesB1645-1BGLK00845
Caprolacta	4 ko00930	MetabolismXenobioticB1645-1BGLK01053+K01782+K01692
Sphingolip	4 ko00600	MetabolismLipid metaB1645-1BGLK07407+K01190+K01130
D-Alanine	4 ko00473	MetabolismMetabolismB1645-1BGLK01775+K01921
Steroid de	4 ko00984	MetabolismXenobioticB1645-1BGLK16047+K16050+K05898
Legionellc	4 ko05134	Human DiseaseInfectiousB1645-1BGLK03596+K03197+K00239
Ether lipi	4 ko00565	MetabolismLipid metaB1645-1BGLK00803+K17717+K01058
RNA polyme	4 ko03020	Genetic InTranscriptB1645-1BGLK03060+K03040+K03046
Polycyclic	3 ko00624	MetabolismXenobioticB1645-1BGLK00480+K00449+K00448
Lipoic aci	3 ko00785	MetabolismMetabolismB1645-1BGLK03801+K03644+K03800
Apoptosis	3 ko04214	Cellular FCell growtB1645-1BGLK03386
Acarbose a	3 ko00525	MetabolismBiosynthesB1645-1BGLK01710+K00973
Tuberculos	3 ko05152	Human DiseaseInfectiousB1645-1BGLK02040+K04043+K04077
alpha-Linc	3 ko00592	MetabolismLipid metaB1645-1BGLK00632+K01058
RNA transp	3 ko03013	Genetic InTranslaticB1645-1BGLK00974+K00784+K03113
Arachidoni	3 ko00590	MetabolismLipid metaB1645-1BGLK00432+K01058
NOD-like r	2 ko04621	OrganismalImmune sysB1645-1BGLK03671+K04079
Ribosome b	2 ko03008	Genetic InTranslaticB1645-1BGLK03685+K13288
Nonribosom	2 ko01054	MetabolismMetabolismB1645-1BGLK01779
Ethylbenze	2 ko00642	MetabolismXenobioticB1645-1BGLK00632
Other glyc	2 ko00511	MetabolismGlycan bicB1645-1BGLK01190+K12373
Flagellar	2 ko02040	Cellular FCell motilB1645-1BGLK02557
Carbapener	2 ko00332	MetabolismBiosynthesB1645-1BGLK00931+K00147
Biosynthes	2 ko01055	MetabolismMetabolismB1645-1BGLK01710
Linoleic a	1 ko00591	MetabolismLipid metaB1645-1BGLK01058
Bacterial	1 ko05100	Human DiseaseInfectiousB1645-1BGLK13735
Bile secre	1 ko04976	OrganismalDigestive B1645-1BGLK01253
MAPK signa	1 ko04016	EnvironmenSignal traB1645-1BGLK17686
Chagas dis	1 ko05142	Human DiseaseInfectiousB1645-1BGLK01354
Chemical c	1 ko05204	Human DiseaseCancers: CB1645-1BGLK01253
Metabolism	1 ko00980	MetabolismXenobioticB1645-1BGLK01253

African tr	1 ko05143	Human Dis	Infectious	B1645-1BGLK01354
Meiosis -	1 ko04113	Cellular F	Cell grow	tB1645-1BGLK08139
Longevity	1 ko04213	Organismal	Aging	B1645-1BGLK03695
Retrograde	1 ko04723	Organismal	Nervous sy	B1645-1BGLK13985
Renin-angi	1 ko04614	Organismal	Endocrine	B1645-1BGLK01322
Penicillin	1 ko00311	Metabolism	Biosynthes	B1645-1BGLK17836

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