

Table S1: List of the primers

Gene name	Cloning primers	Quantitive real-time PCR primers
<i>GAPDH</i>		5'-CGCTCTCTGCTCCTCCTGTT-3'
		5'-CCATGGTGTCTGAGCGATGT-3'
<i>ACTB</i>		5'-CTGGAACGGTGAAGGTGACA-3'
		5'-AAGGGACTTCCTGTAACAACGCA-3'
<i>B2M</i>		5'-AGGACTGGTCTTTCTATCTCTTG-3'
		5'-CGGCATCTTCAAACCTCCAT-3'
<i>ENPP2</i>	5'-CACCTCCAAGAATCCTCGACATGGC-3'	5'-ACCTTCCCAAACGTTTGAC-3'
	5'-CAGATGCTCAGAAAGTTAAATCTC-3'	5'-AGGTTTCCTTGCAACATGCC-3'
<i>SCGN</i>	5'- CACCATACGGTGAAGGAGTCCTTC-3'	5'-TGCACAAGGTGAAACAGCAG-3'
	5'-AGCAGTCTGGGATTATGGGTTGAT-3'	5'-AGCTCTTTCATCCGAATGCG-3'
<i>FGFR4</i>	5'- CACCGAGCTGTGAGAAGGAGATGCGGCTGC-3'	5'-TAGTACGTGCAGAGGCCTTTG-3'
	5'-CCTGCACAGCCTTGAGCCTTGCTCATG-3'	5'-AGGCGTTGTCTTTGAGCATC-3'
<i>MCOLN3</i>	5'-CACCGGCTGCTGGAGTCGCTCGCTGACT-3'	5'-TGGCAATCTGTCAGCACTTC-3'
	5'-GTACAGATAAACCTGATAGCTACT-3'	5'-TTTCTGCTGGTGTCCCAATG-3'
<i>KCNJ16</i>	5'-CACCATGAGCTATTACGGCAGCAGCTATCAT-3'	5'-TTGCAGTGCCAAGCAATTGG-3'
	5'-TCATAATTGCAATTTAGGACTACAT-3'	5'-TTCACAGCTGCTGACAATGG-3'
<i>SMIM22</i>	5'- CACCGCCAAGATGGCTGTGTCCACAGAGG-3'	5'-GAAGAGCCACCAGTTTTTCCAG-3'
	5'-AAGGCTTTGTTACTGCCACCG-3'	5'-GCCCATGAAGGTGAGGAAAAC-3'
<i>SMIM24</i>	5'- CACCGTCATGGAGACCCTGGGGGCCCTT-3'	5'-AAGGAAGGAGAGAGCAACTTGG-3'
	5'-GCAGCCAGGAATCTTCACATGACTGT-3'	5'-CACATGACTGTGCTCTTTGCTC-3'
<i>SERPINH1</i>		5'-ATGCAGAAGAAGGCTGTTGC-3'
		5'-AAGTCGGCCTTGTTCTTGTC-3'
<i>TMPRSS2</i>		5'-ACAGTGTGCACCTCAAAGAC-3'
		5'-ACTTGCTGCCCATGAACCTTC-3'

Table S2: Summary of experimental results from cells transduced with a single gene or all nine (9g-Li-7) genes

Tumorigenicity in mice, spheroid formation assay, chemosensitivity assay, CD13/CD166 expression, and cell proliferation assay were compared using cells transduced with a single gene or 9g-Li-7.

n.s., no significance; ↓ decreased growth rate; ↑ increased growth rate.

Gene name	Tumorigenicity in mice	Number of spheres		5-FU resistance	CD13/166 expression	Cell proliferation
		>100µm	>200µm			
<i>ENPP2</i>	n.s.	n.s.	n.s.	n.s.	n.s.	↓
<i>SCGN</i>	n.s.	n.s.	n.s.	n.s.	n.s.	↑
<i>FGFR4</i>	n.s.	n.s.	n.s.	n.s.	n.s.	↓
<i>MCOLN3</i>	n.s.	n.s.	n.s.	n.s.	n.s.	↓
<i>KCNJ16</i>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
<i>SMIM22</i>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
<i>SMIM24</i>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
<i>SERPINH1</i>	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
<i>TMPRSS2</i>	n.s.	n.s.	n.s.	n.s.	n.s.	↑
9 genes	n.s.	n.s.	n.s.	n.s.	n.s.	↓