

EPHA3, upregulated in high-risk histological subtypes of gastrointestinal stromal tumor, promotes GIST progression

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Supplementary tables

SUPPLEMENTARY TABLE S1. siRNA sequences used for transfection

Target gene (Species)	Sequence (5'→3')
si-EPHA3 (<i>Homo sapiens</i>)	Forward: CCAGGUUUCUACAAGGCAUTT
	Reverse: AUGCCUUGUAGAAACCUGGT
si-NC	Forward: UUCUCCGAACGUGUCACGUTT
	Reverse: ACGUGACACGUUCGGAGAATT

SUPPLEMENTARY TABLE S2. Primer sequences for quantitative reverse transcription polymerase chain reaction (qRT-PCR)

Gene (Species)	Sequence (5'→3')
EPHA3 (<i>Homo sapiens</i>)	Forward: CAGCCTTCCAACGAAGTAACT
	Reverse: TGCACACCTGGTAAGTCCTGA
ZEB1 (<i>Homo sapiens</i>)	Forward: GATGATGAATGCGAGTCAGATGC
	Reverse: ACAGCAGTGTCTTGTTGT
VIM (<i>Homo sapiens</i>)	Forward: GACGCCATCAACACCGAGTT
	Reverse: CTTGTCTGTTGGTTAGCTGGT
CDH1 (<i>Homo sapiens</i>)	Forward: ATTTTCCCTCGACACCCGAT
	Reverse: TCCCAGGCGTAGACCAAGA
CDH2 (<i>Homo sapiens</i>)	Forward: TGCGGTACAGTGAACCTGGG
	Reverse: GAAACCGGGCTATCTGCTCG
NRCAM (<i>Homo sapiens</i>)	Forward: TCCAACCATCACCCAACAGTC
	Reverse: TGAGTCCCATTACGGGTCCAG
LAMC3 (<i>Homo sapiens</i>)	Forward: CCCACCTCGGTCAACATCAC
	Reverse: GAGGCGCTGTAGAAGTGGTA
LAMA5 (<i>Homo sapiens</i>)	Forward: GACTGCCAACAGTGCCAAC
	Reverse: CCACCCTGATAGGTGCCAT
PTPRF (<i>Homo sapiens</i>)	Forward: ACAGGACGGGTGGCTACA
	Reverse: AAGTTCAGCTCCTTCGTCAGA
CADM3 (<i>Homo sapiens</i>)	Forward: CAAGTGCCAAGTGAAAGATCACG
	Reverse: CCCAAAGTAGAGAGTCTGCTGAG
ACTB (<i>Homo sapiens</i>)	Forward: CATGTACGTTGCTATCCAGGC
	Reverse: CTCCTTAATGTCACGCACGAT

SUPPLEMENTARY TABLE S3. List of differentially expressed genes

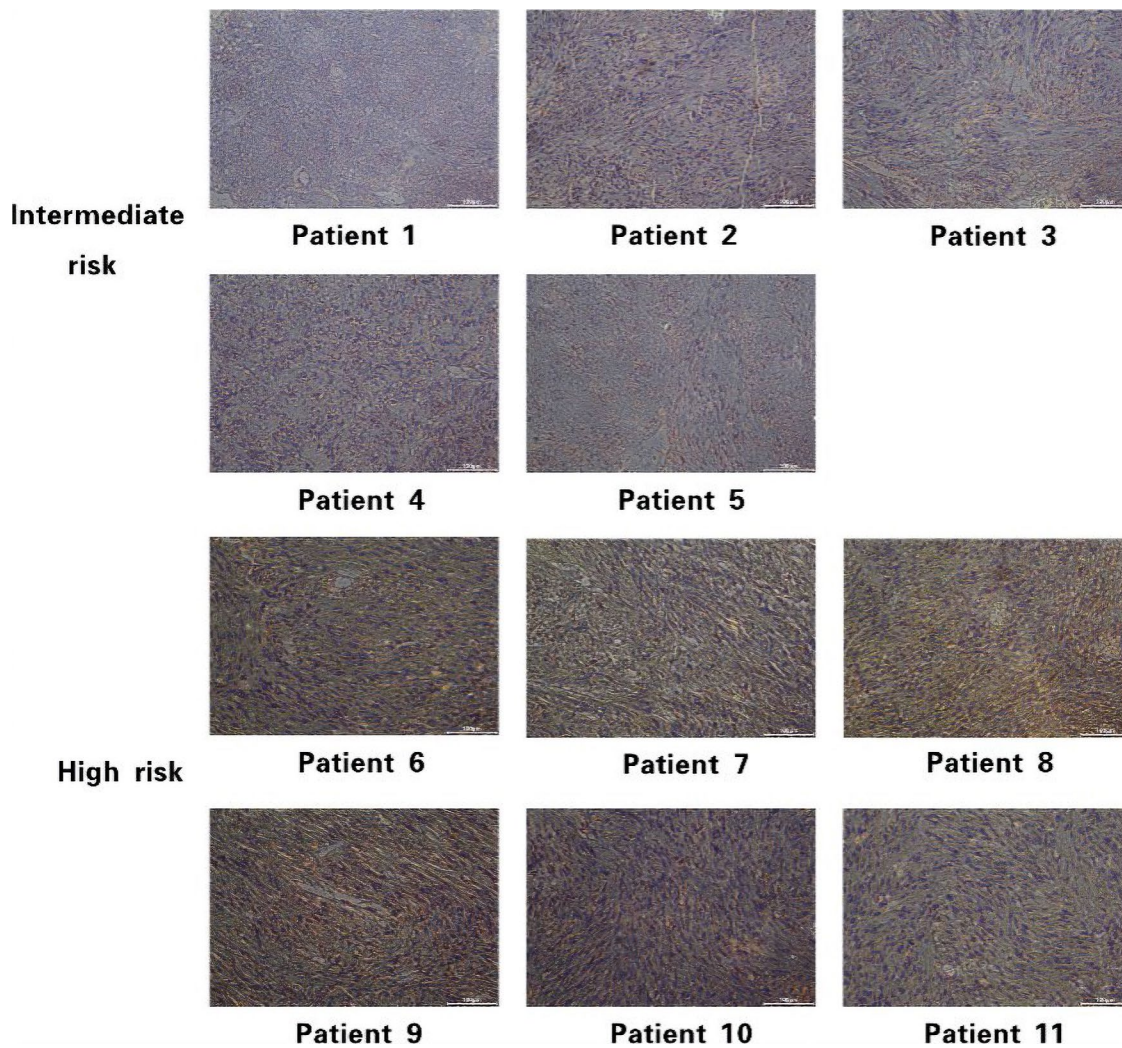
Geneid	gene_name	gene_type	mean_norm_430	mean_norm_430_KO	log2FoldChange	pvalue	padj	change
ENS00000002586.20	CD99	protein_coding	345.2539762	897.5698055	1.378337928	5.93E-07	1.54E-05	Up
ENS00000004799.8	PDK4	protein_coding	151.2838665	93.4654943	-0.693056402	0.00022553	0.002365029	Down
ENS00000005471.19	ABC84	protein_coding	158.9134479	94.42341444	-0.750226418	0.000228784	0.002388864	Down
ENS000000023171.20	GRAMD18	protein_coding	594.973511	371.8604592	-0.677148855	4.01E-12	2.98E-10	Down
ENS000000030419.17	IKZF2	protein_coding	79.84019267	146.5099774	0.875303268	0.000223591	0.002353664	Up
ENS000000041515.16	MYO16	protein_coding	127.0564942	79.60404924	-0.671982336	0.000905216	0.007165779	Down
ENS000000047365.13	ARAP2	protein_coding	164.4379476	249.9371611	0.605474279	5.16E-05	0.000703593	Up
ENS000000049192.15	ADAMTS6	protein_coding	40.77079228	70.86220976	0.799335513	0.003159224	0.0187421	Up
ENS000000054793.14	ATP9A	protein_coding	93.6003788	54.95121476	-0.772079879	0.001856632	0.01249308	Down
ENS000000055163.21	CYFIP2	protein_coding	340.3044991	214.8554005	-0.663731289	2.84E-07	7.99E-06	Down
ENS000000057294.18	PKP2	protein_coding	145.0050529	92.71302335	-0.644099492	0.000598259	0.005090754	Down
ENS000000064300.9	NGFR	protein_coding	560.4386346	988.7401142	0.81857115	1.79E-19	3.15E-17	Up
ENS000000067715.15	SYT1	protein_coding	50.37120931	94.76195874	0.912666458	0.000301316	0.002967377	Up
ENS000000071073.13	MGAT4A	protein_coding	166.9510832	95.11455667	-0.810807354	4.10E-06	8.22E-05	Down
ENS000000071991.9	CDH19	protein_coding	699.6697453	1311.585038	0.907462748	6.20E-24	1.66E-21	Up
ENS000000074047.22	GU2	protein_coding	95.08232789	189.7327734	0.997064602	1.47E-08	5.66E-07	Up
ENS000000076356.7	PLXNA2	protein_coding	284.0656858	124.2508905	-1.189436571	5.83E-13	5.02E-11	Down
ENS000000077238.14	IL4R	protein_coding	137.7799021	79.65286269	-0.792491567	0.000123693	0.001452172	Down
ENS000000080573.7	COL5A3	protein_coding	432.6367254	650.8325668	0.590052271	1.72E-09	8.00E-08	Up
ENS000000080709.17	KCNH2	protein_coding	299.6257562	181.7546209	-0.720965612	4.08E-08	1.44E-06	Down
ENS000000081923.15	ATP8B1	protein_coding	29.99664842	59.62237	0.991969056	0.002135736	0.013989671	Up
ENS000000082293.13	COL19A1	protein_coding	1506.276312	2288.804128	0.603418882	2.59E-15	2.92E-13	Up
ENS000000082482.14	KCNK2	protein_coding	50.26947495	84.20166668	0.746369885	0.006984219	0.03452292	Up
ENS000000082497.12	SERTAD4	protein_coding	151.7832349	401.0302754	1.400623023	3.84E-25	1.12E-22	Up
ENS000000084636.18	COL16A1	protein_coding	206.7272171	313.9629608	0.60305668	4.22E-05	0.000595958	Up
ENS000000085276.19	MECOM	protein_coding	156.3068898	445.5058582	1.510192863	2.46E-28	9.87E-26	Up
ENS000000088038.20	CNOT3	protein_coding	124.2818395	197.7414983	0.688506807	0.000741475	0.006087397	Up
ENS000000091129.22	NRCAM	protein_coding	3450.481201	7573.101337	1.134150268	3.30E-59	1.41E-55	Up
ENS000000096696.16	DSP	protein_coding	805.9803697	308.1991581	-1.386316066	1.57E-40	1.34E-37	Down
ENS000000099139.14	PCSK5	protein_coding	448.5840845	683.2145939	0.607062983	1.38E-10	7.77E-09	Up
ENS000000100167.21	SEPTIN3	protein_coding	204.255094	129.1565044	-0.658616747	0.000304311	0.002987692	Down
ENS000000100191.6	SLC5A4	protein_coding	992.3045367	504.0355322	-0.976539367	4.70E-30	2.15E-27	Down
ENS000000100628.12	ASB2	protein_coding	193.3631215	120.7757116	-0.679606292	0.000685132	0.005694051	Down
ENS000000101973.13	BIRC7	protein_coding	858.4654403	484.215673	-0.826259404	5.46E-22	1.25E-19	Down
ENS000000101210.14	EEF1A2	protein_coding	1018.184662	528.8827452	-0.944819815	6.90E-21	1.38E-18	Down
ENS000000101230.6	ISM1	protein_coding	176.2358491	89.0110982	-0.983713642	1.21E-07	3.77E-06	Down
ENS000000101265.16	RASSF2	protein_coding	195.6718889	124.2938598	-0.65498685	9.89E-05	0.001205188	Down
ENS000000101850.13	GPR143	protein_coding	1499.454346	882.4378926	-0.764977349	1.33E-27	5.03E-25	Down
ENS000000102109.9	PCSK1N	protein_coding	107.0294298	58.49366358	-0.868161805	0.000160363	0.001801905	Down
ENS000000102313.9	ITIH6	protein_coding	335.9305625	567.9337057	0.758263188	3.00E-13	2.69E-11	Up
ENS000000103489.12	XYLT1	protein_coding	2720.071205	4235.387013	0.639217838	1.76E-21	3.82E-19	Up
ENS000000105088.9	OLFM2	protein_coding	242.3104159	138.8541596	-0.801653991	2.65E-07	7.56E-06	Down
ENS000000105613.10	MAST1	protein_coding	220.104621	144.0801223	-0.613029287	0.000241147	0.002489455	Down
ENS000000105618.14	PRPF31	protein_coding	27.8719355	153.556756	2.462135765	0.008626885	0.040467676	Up
ENS000000105708.9	ZNF14	protein_coding	111.9392512	187.1395145	0.740385923	9.43E-06	0.000166182	Up
ENS000000105711.14	SCN1B	protein_coding	138.9898782	89.34720501	-0.639478992	0.001489553	0.010519509	Down
ENS000000106069.26	CHN2	protein_coding	716.0573747	472.6525501	-0.597812976	1.62E-08	6.18E-07	Down
ENS000000106278.12	PTPRZ1	protein_coding	313.3382477	723.676303	1.208071677	4.14E-32	2.31E-29	Up
ENS000000107281.10	NPDC1	protein_coding	460.22346	285.7009522	-0.685852155	2.16E-07	6.32E-06	Down
ENS000000107719.10	PALD1	protein_coding	150.1351944	95.25077388	-0.656200989	0.000743662	0.006097555	Down
ENS000000109738.11	GLRB	protein_coding	28.99428826	52.23735448	0.85133826	0.007911843	0.037981581	Up
ENS000000111341.10	MGP	protein_coding	38.10001377	85.61702721	1.173155423	5.51E-05	0.000746468	Up
ENS000000112280.18	COL9A1	protein_coding	104.7877492	268.3732006	1.357138089	9.36E-18	1.40E-15	Up
ENS000000112294.14	ALDH5A1	protein_coding	88.79707708	38.25024531	-1.214170181	3.09E-06	6.44E-05	Down
ENS000000112902.12	SEMA5A	protein_coding	406.5499859	2254.861432	-0.850319789	4.40E-41	4.03E-38	Down
ENS000000113369.9	ARRDC3	protein_coding	838.0071419	1270.326493	0.599762858	4.15E-15	4.51E-13	Up
ENS000000113594.10	ILFR	protein_coding	365.565615	599.4975304	0.712400692	2.30E-11	1.46E-09	Up
ENS000000114019.15	AMOTL2	protein_coding	613.0770972	958.032944	0.643382927	1.21E-11	8.14E-10	Up
ENS000000114251.15	WNT5A	protein_coding	352.0004434	527.6321113	0.585008342	4.58E-08	1.58E-06	Up
ENS000000115232.14	ITGA4	protein_coding	268.6158039	434.8924468	0.693964918	1.17E-09	5.58E-08	Up
ENS000000115318.12	LOXL3	protein_coding	3771.839004	6022.416076	0.675058787	6.23E-36	4.44E-33	Up
ENS000000115339.14	GALNT3	protein_coding	349.8591183	230.8783606	-0.600341726	5.76E-06	0.000199249	Down
ENS000000115414.21	FN1	protein_coding	8631.587316	14281.10973	0.726384987	9.30E-34	5.43E-31	Up
ENS000000115457.10	IGFBP2	protein_coding	646.0247472	422.7256339	-0.610460165	2.19E-09	9.92E-08	Down
ENS000000115525.18	ST3GAL5	protein_coding	2252.823029	1393.830285	-0.692641264	5.22E-27	1.81E-24	Down
ENS000000115648.14	MLPH	protein_coding	2039.201106	1128.030775	-0.854044712	1.15E-41	1.23E-38	Down
ENS000000115828.17	QPCT	protein_coding	7107.62132	3645.223779	-0.963189208	1.58E-56	5.07E-53	Down
ENS000000116962.15	NID1	protein_coding	99.17562033	244.9039663	1.305538543	1.92E-15	2.20E-13	Up
ENS000000117983.17	MUC5B	protein_coding	145.2867051	230.1151943	0.663968705	9.55E-06	0.000167851	Up
ENS000000118503.18	TNFAIP3	protein_coding	853.7247352	489.6278016	-0.802949736	4.06E-20	7.55E-18	Down
ENS000000118513.21	MYB	protein_coding	241.6374247	137.1026923	-0.817220605	2.06E-07	6.06E-06	Down
ENS000000118515.12	SGK1	protein_coding	9617.993528	6252.255164	-0.621275251	9.16E-48	2.35E-44	Down
ENS000000118946.12	PCDH17	protein_coding	27.89690024	92.41494077	1.728134725	2.53E-09	1.13E-07	Up
ENS000000120215.10	MLANA	protein_coding	11284.28191	7020.962495	-0.679347005	6.72E-43	9.58E-40	Down
ENS000000122863.6	CHST3	protein_coding	215.4555838	491.6463561	1.188352339	1.10E-20	2.18E-18	Up
ENS000000123095.6	BHLHE41	protein_coding	2748.956645	1568.435366	-0.809523588	1.74E-41	1.71E-38	Down
ENS000000124772.12	CPNE5	protein_coding	67.7274952	26.92846756	-1.331966083	9.13E-06	0.000161569	Down
ENS000000125378.16	BMP4	protein_coding	85.92459023	53.34410402	-0.688676563	0.010926139	0.048180144	Down
ENS000000125726.11	CD70	protein_coding	393.3215464	253.7018595	-0.63329418	5.96E-06	0.000112624	Down
ENS000000125848.10	FLRT3	protein_coding	40.89166797	87.88911132	1.101676551	2.40E-05	0.000369757	Up
ENS000000125864.14	BFSP1	protein_coding	78.20285099	123.158007	0.658329849	0.003845391	0.021868317	Up
ENS000000126856.16	PRDM7	protein_coding	1057.772344	472.5632057	-1.162052183	1.53E-44	3.27E-41	Down
ENS000000127220.6	ABHD8	protein_coding	221.8383879	147.0169643	-0.593972078	0.000175611	0.00193595	Down
ENS000000127952.17	STYX11	protein_coding	119.5582423	74.94966971	-0.67304327	0.001623961	0.011313063	Down
ENS000000128266.9	GNAT	protein_coding	93.39047867	140.7376322	0.592749303	0.003278744	0.019281781	Up
ENS000000128805.15	ARHGAP22	protein_coding	221.9751993	137.2951993	-0.69326428	7.86E-06	0.000141864	Down
ENS000000129595.14	EPB41LA4	protein_coding	93.22856835	142.6159236	0.615625102	0.00142812	0.010192235	Up
ENS000000130203.10	APOE	protein_coding	362.4674651	184.5338796	-0.97373918	2.77E-09	1.23E-07	Down
ENS000000130303.14	BST2	protein_coding	75.66012616	44.61750188	-0.759793804	0.005784191	0.029838853	Down
ENS000000130513.7	GDF15	protein_coding	3856.741082	1846.170165	-1.063456088	2.17E-69	1.39E-65	Down
ENS000000130702.15	LAMA5	protein_coding	693.4763909	454.7570251	-0.607753259	7.07E-11	4.14E-09	Down
ENS000000132182.13	NUP210	protein_coding	293.7963041	133.5787937	-1.13864711	1.51E-15	1.75E-13	Down
ENS000000134013.16	LOXL2	protein_coding	1755.355158	3051.762443	0.797462047	4.03E-43	6.47E-40	Up

Geneid	gene_name	gene_type	mean_norm_430	mean_norm_430_KO	log2FoldChange	pvalue	padj	change
ENS00000134986.14	NREP	protein_coding	71.0721422	117.6557072	0.727437345	0.00055215	0.004797017	Up
ENS00000135116.9	HRK	protein_coding	313.5374269	192.3254176	-0.704339531	7.42E-08	2.43E-06	Down
ENS00000135119.15	RNF12	protein_coding	132.6629547	75.49262178	-0.815364411	0.000146413	0.001668533	Down
ENS00000135127.12	BICDL1	protein_coding	334.2693279	198.1962404	-0.753617906	1.91E-09	8.79E-08	Down
ENS00000135362.14	PRR5L	protein_coding	79.83790851	40.67186719	-0.973438646	0.000265188	0.002696428	Down
ENS00000135424.19	ITGA7	protein_coding	234.8246231	125.1215492	-0.906906587	1.01E-07	3.21E-06	Down
ENS00000136040.9	PLXNC1	protein_coding	1616.936731	925.5742077	-0.804150621	8.15E-22	1.84E-19	Down
ENS00000137337.16	MDC1	protein_coding	64.38991769	117.8195378	0.870768773	0.002628302	0.016320369	Up
ENS00000137460.10	FHDC1	protein_coding	264.0348614	416.9802638	0.658176806	1.29E-08	5.03E-07	Up
ENS00000137571.11	SLCO5A1	protein_coding	232.0663519	129.5368343	-0.842354894	2.22E-07	6.47E-06	Down
ENS00000137752.25	CASP1	protein_coding	875.0235919	392.3086183	-1.156895482	2.29E-35	1.55E-32	Down
ENS00000137801.11	THBS1	protein_coding	6328.844181	11255.74192	0.83063661	5.59E-07	1.48E-05	Up
ENS00000138119.17	MYOF	protein_coding	3205.201822	5480.414234	0.773818932	8.31E-06	0.000149003	Up
ENS00000138193.17	PLCE1	protein_coding	402.3909363	722.2610569	0.844175954	6.20E-16	7.65E-14	Up
ENS00000138650.9	PCDH10	protein_coding	117.2057525	265.845104	1.181209638	1.10E-11	7.52E-10	Up
ENS00000138835.24	RGD3	protein_coding	218.6412032	341.6992446	0.644054701	4.27E-06	8.50E-05	Up
ENS00000139531.13	SUOX	protein_coding	309.1513905	165.8101437	-0.895781488	5.14E-09	2.17E-07	Down
ENS00000139915.22	MDGA2	protein_coding	87.17675705	142.4499885	0.710502762	0.00035821	0.003384791	Up
ENS00000140522.12	RLBP1	protein_coding	364.8790086	237.2787417	-0.620417744	8.62E-07	2.14E-05	Down
ENS00000141404.17	GNAL	protein_coding	385.3160238	192.2854313	-1.002154508	7.25E-14	6.92E-12	Down
ENS00000141527.19	CARD14	protein_coding	173.4326189	98.30897419	-0.817516618	5.21E-06	0.000100273	Down
ENS00000141540.11	TTYH2	protein_coding	3672.017603	2415.137029	-0.604221422	7.93E-32	3.77E-29	Down
ENS00000143127.13	ITGA10	protein_coding	66.73974183	103.5818088	0.63398031	0.003855174	0.021908589	Up
ENS00000143375.15	CGN	protein_coding	327.3664823	193.3943337	-0.76007309	1.35E-07	4.14E-06	Down
ENS00000143603.19	KCNN3	protein_coding	68.84292076	151.3098734	1.135465025	8.73E-09	3.52E-07	Up
ENS00000143702.16	CEP170	protein_coding	584.8376022	969.7880514	0.729200588	1.07E-12	8.79E-11	Up
ENS00000143786.8	CNIH3	protein_coding	108.5653964	47.44469867	-1.19211235	2.62E-07	7.50E-06	Down
ENS00000144218.21	AFB3	protein_coding	233.2876649	131.4299846	-0.828516307	3.54E-08	1.27E-06	Down
ENS00000144857.1	BOC	protein_coding	498.5797234	331.4934426	-0.588810394	9.13E-09	3.66E-07	Down
ENS00000146285.15	SCML4	protein_coding	205.6082428	81.99264041	-1.326973615	4.31E-13	3.74E-11	Down
ENS00000147027.4	TMEM47	protein_coding	265.2109809	531.4023239	1.002128392	6.08E-19	1.05E-16	Up
ENS00000147437.10	GNRH1	protein_coding	25.84216044	49.44243157	0.93370913	0.004769091	0.025734643	Up
ENS00000147804.10	SLC39A4	protein_coding	386.422266	250.6159519	-0.626214986	2.78E-07	7.85E-06	Down
ENS00000148450.13	MSRB2	protein_coding	463.2009512	291.375459	-0.669023624	6.92E-08	2.30E-06	Down
ENS00000148735.16	PLEKH51	protein_coding	77.00107243	245.2852644	1.67089148	2.89E-15	3.23E-13	Up
ENS00000150551.11	LYPD1	protein_coding	29.86117173	53.99161397	0.85184528	0.007757714	0.037395563	Up
ENS00000150687.12	PRSS23	protein_coding	1200.367471	1872.697075	0.642121539	1.30E-20	2.52E-18	Up
ENS00000151012.13	SLC7A11	protein_coding	1772.110756	3224.753476	0.864103364	1.08E-24	3.07E-22	Up
ENS00000151224.13	MAT1A	protein_coding	153.2358339	96.63880418	-0.770211919	0.00029342	0.002909707	Down
ENS00000151914.22	DST	protein_coding	5126.241076	7736.784893	0.593850909	4.85E-05	0.000666872	Up
ENS00000152128.13	TMEM163	protein_coding	498.8622529	220.4051177	-1.177255547	4.22E-24	1.15E-21	Down
ENS00000152439.13	ZNF773	protein_coding	88.0310449	141.5113517	0.684856803	0.000491837	0.004373702	Up
ENS00000152894.15	PTPRK	protein_coding	77.0462601	192.9666803	1.325485702	5.79E-10	2.94E-08	Up
ENS00000152942.19	RAD17	protein_coding	123.9887198	267.7675246	1.108663543	1.29E-10	7.31E-09	Up
ENS00000153253.20	SCN3A	protein_coding	32.73843813	61.33356638	0.907666019	0.002450798	0.015476694	Up
ENS00000153993.14	SEMA3D	protein_coding	46.24543333	73.55155714	0.671582784	0.009896305	0.044905123	Up
ENS00000154162.15	CDH12	protein_coding	61.08102418	121.3379222	0.992090475	7.40E-06	0.000135177	Up
ENS00000154217.16	PITPNC1	protein_coding	118.926112	1859.479878	0.73298496	1.49E-25	4.78E-23	Up
ENS00000154556.20	SORBS2	protein_coding	155.3458373	327.3193357	1.075202786	6.90E-11	4.06E-09	Up
ENS00000154639.13	CXADR	protein_coding	654.521212	392.0674401	-0.738658076	1.74E-14	1.78E-12	Down
ENS00000154856.10	APCDD1	protein_coding	396.5576568	156.9918804	-1.335874371	1.16E-16	1.53E-14	Down
ENS00000154864.14	PIEZO2	protein_coding	71.88852888	109.1275501	0.605931467	0.009988163	0.04520921	Up
ENS00000155849.16	ELMO1	protein_coding	84.31107248	28.45401873	-1.56825913	4.41E-08	1.54E-06	Down
ENS00000155850.9	SLC26A2	protein_coding	9665.138527	15749.58933	0.704530006	4.45E-37	3.36E-34	Up
ENS00000155966.14	AFB2	protein_coding	35.16545988	63.587621	0.852761088	0.005759157	0.029745033	Up
ENS00000156103.16	MMP16	protein_coding	3074.900034	4617.518607	0.586623215	3.71E-17	5.12E-15	Up
ENS00000156453.14	PCDH1	protein_coding	491.358497	807.0791928	0.7158169	4.11E-14	4.02E-12	Up
ENS00000158022.7	TRIM63	protein_coding	865.8722751	486.1897684	-0.833088804	1.10E-21	2.43E-19	Down
ENS00000158352.18	SHROOM4	protein_coding	413.609002	626.3930116	0.599716631	1.23E-08	4.81E-07	Up
ENS00000158747.15	NBL1	protein_coding	4542.143688	3021.529647	-0.58788895	8.14E-18	1.24E-15	Down
ENS00000159685.11	CHCHD6	protein_coding	2778.495138	1604.71653	-0.79166379	2.74E-29	1.22E-26	Down
ENS00000160200.18	CBS	protein_coding	104.4061231	178.1496804	0.772251505	0.000408881	0.003774651	Up
ENS00000161249.21	DMKN	protein_coding	68.05183382	36.02113048	-0.915481717	0.001210818	0.009043779	Down
ENS00000161970.15	RPL26	protein_coding	333.8866822	199.897193	-0.741927663	1.03E-07	3.26E-06	Down
ENS00000162066.16	AMDHD2	protein_coding	617.9737713	405.0915871	-0.607557845	1.14E-08	4.48E-07	Down
ENS00000162409.12	PRKAA2	protein_coding	72.32543711	111.703561	0.628203812	0.003401315	0.019866032	Up
ENS00000162645.13	GBP2	protein_coding	54.83279145	92.84237873	0.761688356	0.002444692	0.01545277	Up
ENS00000162733.19	DDR2	protein_coding	772.2263493	1185.132312	0.618540835	6.40E-16	7.82E-14	Up
ENS00000162878.13	PKDCC	protein_coding	81.15352704	124.3737872	0.614396313	0.003962462	0.022334123	Up
ENS00000162944.11	RFTN2	protein_coding	174.7604458	276.05966	0.660142157	7.82E-06	0.000141395	Up
ENS00000163235.16	TGFA	protein_coding	526.2866094	1158.594398	1.138511728	2.09E-42	2.44E-39	Up
ENS00000163568.16	AIM2	protein_coding	59.71365008	116.8641944	0.97216488	5.84E-05	0.000780018	Up
ENS00000163599.18	CTLA4	protein_coding	102.8838802	64.57324837	-0.671666903	0.002849555	0.017362529	Down
ENS00000164106.8	SCRGI	protein_coding	46.15654538	76.43149478	0.728467606	0.005270949	0.02784554	Up
ENS00000164175.15	SLC45A2	protein_coding	4580.135189	3043.949204	-0.589218379	2.53E-27	9.03E-25	Down
ENS00000164176.13	EDIL3	protein_coding	29.18617515	94.36016894	1.690714062	1.95E-09	8.92E-08	Up
ENS00000164418.22	GRIK2	protein_coding	481.1266472	944.3477263	0.97297022	2.50E-23	6.28E-21	Up
ENS00000164946.20	FREM1	protein_coding	33.6480023	73.46031981	1.130428312	0.000143294	0.001646154	Up
ENS00000165105.10	RASEF	protein_coding	2951.464207	1752.482299	-0.752098032	1.79E-38	1.44E-35	Down
ENS00000165238.17	WNK2	protein_coding	412.5220434	250.7625553	-0.717459118	2.86E-10	1.54E-08	Down
ENS00000165507.9	DEP1	protein_coding	59.03323588	127.3397325	1.11137227	3.42E-07	9.53E-06	Up
ENS00000165626.19	BEND7	protein_coding	98.39322677	46.69885343	-1.07869313	0.000116539	0.001380388	Down
ENS00000165948.11	IFI2L1	protein_coding	29.04200509	72.54023314	1.322661526	7.58E-06	0.000138095	Up
ENS00000166446.11	TCF1L2	protein_coding	95.47817351	143.5962275	0.590595544	0.004589625	0.025061307	Up
ENS00000166741.9	NNMT	protein_coding	351.675336	691.7936195	0.977426239	5.09E-21	1.05E-18	Up
ENS00000166912.17	MTMR10	protein_coding	120.4516901	190.6011399	0.661189913	0.003405521	0.019881551	Up
ENS00000167191.12	GPRC5B	protein_coding	4256.785674	2774.879301	-0.616975088	2.15E-27	7.86E-25	Down
ENS00000167601.12	AXL	protein_coding	64.36208877	109.2429704	0.759910066	0.006640842	0.033255749	Up
ENS00000168505.7	GBX2	protein_coding	251.6745049	139.7447646	-0.848519545	4.86E-08	1.68E-06	Down
ENS00000168685.15	IL7R	protein_coding	51.63421139	121.1112492	1.227557705	1.02E-06	2.52E-05	Up
ENS00000168772.12	CXCC4	protein_coding	46.15830576	126.9758247	1.459886671	5.89E-11	3.55E-09	Up
ENS00000169020.17	ATP5ME	protein_coding	110.035878	61.06752154	-0.852435147	0.000278699	0.002802717	Down
ENS00000169246.17	NPIP3B	protein_coding	107.8649578	67.3455514	-0.680248746	0.004582007	0.025051687	Down

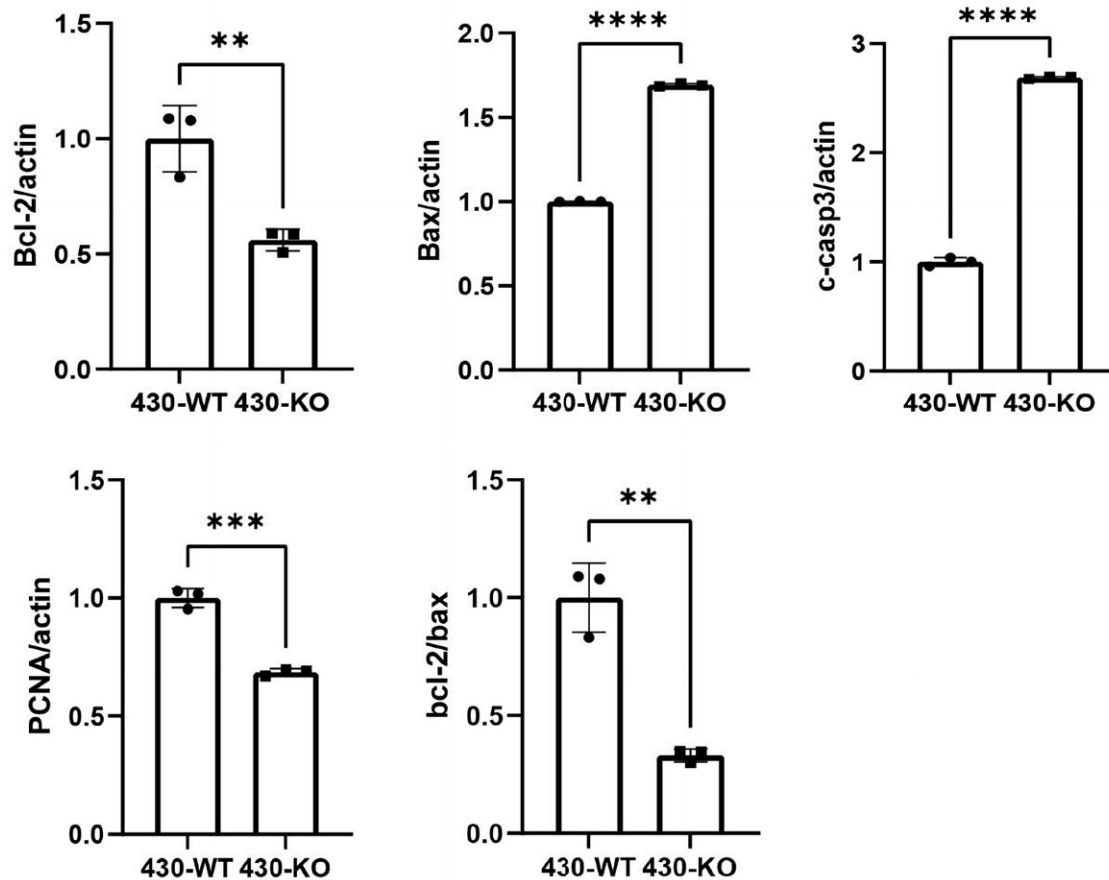
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ENS00000169302.16	STK32A	protein_coding	380.8029591	191.8551527	-0.986561359	3.68E-14	3.66E-12	Down
ENS00000169306.11	IL1RAPL1	protein_coding	179.5806384	296.6512281	0.72240594	2.43E-06	5.21E-05	Up
ENS00000169744.13	LD82	protein_coding	234.6362791	380.7111386	0.699643556	1.24E-07	3.84E-06	Up
ENS00000169783.13	LINGO1	protein_coding	403.9322039	259.0319078	-0.643143389	1.43E-06	3.32E-05	Down
ENS00000169891.18	REP52	protein_coding	126.8019022	71.45002319	-0.82375632	0.000237732	0.00246213	Down
ENS00000170153.11	RNFI50	protein_coding	430.0320642	1234.055051	1.521842927	1.91E-69	1.39E-65	Up
ENS00000170379.21	TCAF2	protein_coding	210.8261499	351.3317582	0.738011062	2.88E-08	1.05E-06	Up
ENS00000170396.9	ZNF804A	protein_coding	28.9709389	67.58393746	1.221401878	2.92E-05	0.000437946	Up
ENS00000170579.19	DLGAP1	protein_coding	239.6320721	134.3460297	-0.836017604	7.69E-07	1.94E-05	Down
ENS00000170631.15	ZNF16	protein_coding	216.8454835	348.9461499	0.685785818	8.93E-08	2.89E-06	Up
ENS00000171224.9	FAM241B	protein_coding	122.9922731	80.06366724	-0.620753733	0.003846383	0.021868317	Down
ENS00000171368.12	TPPP	protein_coding	764.4455342	407.1010815	-0.90888191	4.59E-22	1.07E-19	Down
ENS00000171522.6	PTGER4	protein_coding	47.41223296	87.02176551	0.873480735	0.00050551	0.004466427	Up
ENS00000172061.9	LRRC15	protein_coding	42.88203229	96.36168694	1.165600307	1.04E-05	0.000180486	Up
ENS00000172260.15	NEGR1	protein_coding	11.46828177	78.86189528	2.787961996	7.31E-13	6.25E-11	Up
ENS00000172318.6	B3GALT1	protein_coding	56.64059454	92.51807881	0.706287405	0.006007929	0.030629221	Up
ENS00000172578.12	KLHL6	protein_coding	164.4527994	95.01967654	-0.792879024	0.000102997	0.001243326	Down
ENS00000172817.4	CYP7B1	protein_coding	186.8406655	373.2483033	0.998058664	5.29E-12	3.88E-10	Up
ENS00000172927.9	MYEOV	protein_coding	65.95369102	38.82305753	-0.763819099	0.008902433	0.041449935	Down
ENS00000173114.13	LRRN3	protein_coding	56.47615506	88.33817622	0.644011521	0.007132329	0.03506592	Up
ENS00000174473.17	GALNTL6	protein_coding	64.45058944	142.1463917	1.141901777	6.11E-08	2.06E-06	Up
ENS00000175356.14	SCUBE2	protein_coding	220.3651264	122.4657533	-0.844342002	4.26E-06	8.50E-05	Down
ENS00000175899.15	A2M	protein_coding	1464.307337	2564.349771	0.808631768	5.77E-32	2.85E-29	Up
ENS00000176049.16	JAKMIP2	protein_coding	230.8762637	405.0906426	0.811213996	1.16E-11	7.91E-10	Up
ENS00000176463.14	SLCO3A1	protein_coding	251.0155104	151.8856201	-0.726330934	6.42E-07	1.65E-05	Down
ENS00000176771.18	NCKAP5	protein_coding	48.83147694	81.36961867	0.737308779	0.00444334	0.024449802	Up
ENS00000178445.10	GLDC	protein_coding	421.0474652	638.9922076	0.601588082	3.88E-10	2.02E-08	Up
ENS00000178531.6	CTXN1	protein_coding	63.04809413	38.71733969	-0.70465904	0.010455281	0.046795316	Down
ENS00000178568.16	ERBB4	protein_coding	15.89636659	62.53271319	1.975150995	8.85E-08	2.87E-06	Up
ENS00000179314.16	WSCD1	protein_coding	16.51710063	59.01550942	1.838030199	5.05E-07	1.35E-05	Up
ENS00000181104.7	F2R	protein_coding	382.1025977	678.6518301	0.82824641	8.07E-18	1.24E-15	Up
ENS00000181458.10	TMEM45A	protein_coding	570.9313376	919.1752227	0.687434694	8.11E-15	8.60E-13	Up
ENS00000182111.9	ZNF716	protein_coding	84.48898487	131.0428176	0.633260717	0.000961991	0.007531584	Up
ENS00000182168.16	UNC5C	protein_coding	93.94512333	329.648418	1.810446471	1.60E-28	6.61E-26	Up
ENS00000182253.15	SYNM	protein_coding	3276.509965	5110.334316	0.641286535	3.45E-35	2.22E-32	Up
ENS00000182256.13	GABRG3	protein_coding	109.448009	36.51008792	-1.584955912	6.75E-10	3.37E-08	Down
ENS00000182580.3	EPHB3	protein_coding	206.4309302	332.5592335	0.689447428	1.84E-07	5.95E-06	Up
ENS00000182612.11	TSPAN10	protein_coding	156.2270488	83.80572106	-0.896755598	2.09E-06	4.58E-05	Down
ENS00000182667.15	NTM	protein_coding	692.0333848	1257.575322	0.861825377	1.53E-28	6.54E-26	Up
ENS00000183054.13	RGPD6	protein_coding	37.89591855	78.52256944	1.053392048	0.000669508	0.005596749	Up
ENS00000183098.12	GPC6	protein_coding	802.0274758	1443.702473	0.848616296	3.65E-22	8.78E-20	Up
ENS00000183779.7	ZNF703	protein_coding	1181.604891	767.9637299	-0.620847733	6.20E-12	4.45E-10	Down
ENS00000183873.18	SCN5A	protein_coding	103.7400649	68.44049405	-0.600732429	0.0066792	0.033401204	Down
ENS00000184226.15	PCDH9	protein_coding	134.1805488	397.4789541	1.566599869	4.07E-28	1.58E-25	Up
ENS00000184381.20	PLA2G6	protein_coding	744.3054102	441.6128674	-0.75279788	4.88E-16	6.14E-14	Down
ENS00000184613.11	NEL2	protein_coding	22.26445543	78.85489115	1.830687917	9.97E-08	3.20E-06	Up
ENS00000185304.16	RGPD2	protein_coding	25.69056738	53.06634612	1.042966622	0.005044442	0.026881346	Up
ENS00000185442.13	FAM174B	protein_coding	131.6412082	82.10751528	-0.681169255	0.000558012	0.004838111	Down
ENS00000185585.20	OLFML2A	protein_coding	484.6825394	929.5062619	0.939896298	9.55E-26	3.14E-23	Up
ENS00000185614.7	INKA1	protein_coding	287.0099246	157.0499447	-0.86899966	1.76E-07	5.28E-06	Down
ENS00000185668.8	POU3F1	protein_coding	173.6700807	108.3090178	-0.679725444	9.01E-05	0.001113525	Down
ENS00000185737.13	NRG3	protein_coding	90.07454366	41.66118584	-1.10925286	2.71E-05	0.000412688	Down
ENS00000186297.12	GABRA5	protein_coding	68.18340826	40.94276325	-0.736955551	0.00682225	0.033969017	Down
ENS00000186472.20	PCLO	protein_coding	374.5344849	666.6276208	0.832167607	8.70E-15	9.15E-13	Up
ENS00000186897.5	C1QL4	protein_coding	97.78773181	62.93497524	-0.636170069	0.006436474	0.03245298	Down
ENS00000187135.8	VSTM2B	protein_coding	47.97113918	26.67929226	-0.849626339	0.009820505	0.04665109	Down
ENS00000188158.17	NHS	protein_coding	42.73560605	118.8643895	1.474181306	4.31E-08	1.51E-06	Up
ENS00000188488.14	SERPINA5	protein_coding	68.53104126	115.1120187	0.746421021	0.001253845	0.009268055	Up
ENS00000188501.12	LCTL	protein_coding	36.45753325	62.80805736	0.784166067	0.007110216	0.034997428	Up
ENS00000188994.14	ZNF292	protein_coding	831.1106858	1274.392753	0.616699004	1.21E-10	6.89E-09	Up
ENS00000189184.12	PCDH18	protein_coding	76.8759072	129.2952777	0.749391607	0.000163162	0.001825369	Up
ENS00000196154.12	S100A4	protein_coding	1250.012436	1923.007373	0.621424765	3.02E-20	5.71E-18	Up
ENS00000196159.14	FAT4	protein_coding	120.3013616	249.3150147	1.051624473	6.69E-12	4.77E-10	Up
ENS00000196376.11	SLC35F1	protein_coding	523.4187829	1156.516641	1.143298579	1.84E-42	2.35E-39	Up
ENS00000196646.12	ZNF136	protein_coding	158.6884509	260.979525	0.716090914	1.09E-06	2.66E-05	Up
ENS00000196660.12	SLC30A10	protein_coding	104.5642619	54.21869009	-0.949584701	3.79E-05	0.000542485	Down
ENS00000197692.5	CBX3P7	processed_pseudogene	104.4546087	58.50636959	-0.833635948	0.000483079	0.004313754	Down
ENS00000198223.18	CSF2RA	protein_coding	195.182615	109.8855353	-0.827003611	1.37E-06	3.22E-05	Down
ENS00000198373.13	WWP2	protein_coding	2820.137313	4533.030829	0.684726994	7.74E-44	1.42E-40	Up
ENS00000198743.7	SLC5A3	protein_coding	3947.237943	7240.816677	0.875356455	2.42E-10	1.32E-08	Up
ENS00000198868.3	MTND4LP30	processed_pseudogene	50.84185987	27.70672896	-0.87253343	0.009173568	0.0423406	Down
ENS00000200087.1	SNORA73B	snoRNA	89.07760113	55.92427841	-0.670990397	0.004631396	0.025235698	Down
ENS00000204356.14	NELFE	protein_coding	354.8742113	145.8363439	-1.282922973	0.00113756	0.008639099	Down
ENS00000204469.13	PRRC2A	protein_coding	130.6391046	50.45576617	-1.372041077	0.00686024	0.03408076	Down
ENS00000204839.9	MROH6	protein_coding	54.8441225	30.0267027	-0.868726958	0.005018966	0.026790088	Down
ENS00000204920.11	ZNF155	protein_coding	39.94483494	66.17311887	0.727408398	0.011350697	0.04942387	Up
ENS00000204956.6	PCDHGA1	protein_coding	31.30547045	58.51375214	0.90284369	0.004001265	0.022479963	Up
ENS00000205213.14	LGR4	protein_coding	992.9242569	1537.319398	0.631070502	5.99E-21	1.22E-18	Up
ENS00000205786.8	LINC01531	lncRNA	148.034082	56.24081737	-1.396092912	6.67E-10	3.34E-08	Down
ENS00000206077.14	ZDHHC11B	protein_coding	358.9377557	176.3418778	-1.024817902	2.10E-15	2.39E-13	Down
ENS00000213949.10	ITGA1	protein_coding	367.9119126	592.5085296	0.687928858	1.00E-12	8.29E-11	Up
ENS00000218336.9	TENM3	protein_coding	1602.476669	2722.00965	0.764684358	4.66E-32	2.49E-29	Up
ENS00000223382.6	LINC01778	lncRNA	33.15292928	62.27667606	0.908768828	0.002069332	0.013674045	Up
ENS00000224397.9	PETLATON	lncRNA	457.6642595	273.1602968	-0.744144647	5.86E-10	2.96E-08	Down
ENS00000224660.2	SH3BP5-AS1	lncRNA	718.6093447	459.1432069	-0.64650037	1.44E-11	9.59E-10	Down
ENS00000224934.6	GOT1-DT	lncRNA	85.56172394	133.2919726	0.640848434	0.001151988	0.008685261	Up
ENS00000226508.1	LINC01918	lncRNA	439.6849612	213.8781487	-1.038461406	3.61E-15	3.96E-13	Down
ENS00000227203.3	SUB1P1	processed_pseudogene	71.61064251	34.19927121	-1.065110004	0.000376139	0.003523076	Down
ENS00000228253.1	MT-ATP8	protein_coding	11492.62467	6491.539168	-0.824107854	8.38E-09	3.39E-07	Down
ENS00000229400.1	CNIH3-AS1	lncRNA	51.20926649	25.1087612	-1.023930975	0.003476974	0.020179345	Down
ENS00000230082.1	PRRT3-AS1	lncRNA	112.5297579	71.3841979	-0.654589939	0.002007039	0.013351124	Down
ENS00000231312.8	MAP4K3-DT	lncRNA	208.9154902	132.6684786	-0.654031023	2.51E-05	0.00038378	Down
ENS00000232310.10	LINC03002	lncRNA	57.1040671	33.00320114	-0.787990475	0.010191067	0.045852655	Down

Geneid	gene_name	gene_type	mean_norm_430	mean_norm_430_KO	log2FoldChange	pvalue	padj	change
ENSG00000233527.10	ZNF59-AS1	lncRNA	25.70516838	48.90989031	0.932346354	0.008261541	0.039147747	Up
ENSG00000233539.5	ENSG00000233539	lncRNA	83.01836683	48.44395588	-0.782870866	0.003749134	0.021497517	Down
ENSG00000234323.10	LINC01505	lncRNA	77.51867103	118.315687	0.609295543	0.00232884	0.014904579	Up
ENSG00000234362.7	LINC01914	lncRNA	51.48047066	82.40088894	0.682754037	0.010135846	0.045701247	Up
ENSG00000235172.9	LINC01366	lncRNA	131.125615	74.68232263	-0.811118357	6.67E-05	0.000871032	Down
ENSG00000237289.10	CKMT1B	protein_coding	132.4878165	80.16647533	-0.72805329	0.004071669	0.022785722	Down
ENSG00000237499.7	WAKMAR2	lncRNA	113.0577017	71.31837261	-0.666372311	0.003182098	0.018816322	Down
ENSG00000237638.3	LINC02245	lncRNA	87.75266272	48.74064239	-0.849508253	0.000650633	0.005456713	Down
ENSG00000240476.1	LINC00973	lncRNA	86.73570157	50.35527798	-0.787261322	0.002134538	0.013988962	Down
ENSG00000240695.1	DNAJC8P2	processed_pseudogene	78.37446846	48.21687976	-0.703454092	0.007613665	0.036839573	Down
ENSG00000241081.1	RPL2P2	processed_pseudogene	60.72670899	35.19190272	-0.78740969	0.007937944	0.038035733	Down
ENSG00000241945.8	PWP2	protein_coding	60.12046744	28.64853639	-1.066535658	0.001542771	0.01083571	Down
ENSG00000242083.2	RPL7AP31	processed_pseudogene	59.4853774	30.30483901	-0.970668857	0.001718511	0.01179879	Down
ENSG00000243244.7	STON1	protein_coding	129.8954779	227.4823275	0.808577039	3.31E-06	6.85E-05	Up
ENSG00000246859.3	STARD4-AS1	lncRNA	104.9549629	189.8946872	0.856753222	6.15E-07	1.59E-05	Up
ENSG00000248923.1	MTND5P1.1	processed_pseudogene	57.59435478	33.43179905	-0.78798374	0.009829218	0.044678899	Down
ENSG00000248964.7	ENSG00000248964	lncRNA	78.45241265	49.26833242	-0.669059645	0.008713187	0.040761072	Down
ENSG00000249992.2	TMEM158	protein_coding	484.1384686	236.6409095	-1.032863115	2.38E-17	3.36E-15	Down
ENSG00000250378.4	ENSG00000250378	lncRNA	70.18700049	34.079309	-1.041129295	0.000455696	0.004115055	Down
ENSG00000250479.9	CHCHD10	protein_coding	1351.168468	885.0390071	-0.611073124	4.94E-11	3.03E-09	Down
ENSG00000251191.8	LINC00589	lncRNA	329.8106342	190.4215266	-0.793446768	4.33E-09	1.84E-07	Down
ENSG00000254595.1	ENSG00000254595	processed_pseudogene	27.68722661	49.86109091	0.853457881	0.010604641	0.047216285	Up
ENSG00000254876.5	SUGT1P4-STRALP	lncRNA	52.30026959	84.72519319	0.6932456	0.007033495	0.034686137	Up
ENSG00000255248.11	MIR100HG	lncRNA	215.6394096	342.8089039	0.667657637	1.14E-07	3.57E-06	Up
ENSG00000256894.1	ENSG00000256894	lncRNA	186.5386016	115.0013073	-0.697621332	1.91E-05	0.000302508	Down
ENSG00000258645.2	HSP1P2	processed_pseudogene	172.2702231	105.7359413	-0.70349862	0.000100568	0.001220894	Down
ENSG00000258791.9	LINC00520	lncRNA	1774.22349	1137.752565	-0.641456278	1.51E-20	2.88E-18	Down
ENSG00000260877.3	ENSG00000260877	lncRNA	88.01682539	56.58603275	-0.637077571	0.007295493	0.035663148	Down
ENSG00000260920.2	ENSG00000260920	lncRNA	31.71341589	58.72989673	0.889315197	0.003908677	0.022114703	Up
ENSG00000261036.2	ENSG00000261036	lncRNA	38.61863195	65.43004108	0.76316866	0.007429611	0.036139789	Up
ENSG00000261115.7	TMEM178B	protein_coding	138.0351206	415.1080527	1.589377209	4.85E-32	2.49E-29	Up
ENSG00000261616.1	TTC23-AS1	lncRNA	42.70865444	77.00761984	0.849843889	0.001113434	0.008486217	Up
ENSG00000266835.7	GAPLINC	lncRNA	80.80350138	46.19196034	-0.806203907	0.002460095	0.01551422	Down
ENSG00000269821.2	KCNQ1OT1	lncRNA	538.0130319	857.1325722	0.671988955	0.003033978	0.01818403	Up
ENSG00000270647.7	TAF15	protein_coding	963.6923134	2077.131842	1.107968555	0.002224024	0.014400198	Up
ENSG00000273145.1	ENSG00000273145	lncRNA	101.8390844	65.48571637	-0.638733821	0.009369191	0.042999089	Down
ENSG00000274525.1	ENSG00000274525	unprocessed_pseudogene	45.12132019	72.50949763	0.683927445	0.007894341	0.037925941	Up
ENSG00000276107.1	THBS1-IT1	lncRNA	39.54582787	69.80898261	0.815988254	0.004899727	0.026384096	Up
ENSG00000276168.1	RN7SL1	misc_RNA	1465.254072	209.4440566	-2.806553704	0.004844694	0.026098703	Down
ENSG00000276476.4	LINC00540	lncRNA	99.25670378	52.28271279	-0.92502302	0.000192566	0.002087709	Down
ENSG00000276644.5	DACH1	protein_coding	90.28859684	204.2629769	1.177402452	3.52E-12	2.67E-10	Up
ENSG00000277586.4	NEFL	protein_coding	1120.942534	628.5729139	-0.834830514	3.70E-22	8.78E-20	Down
ENSG00000279198.2	ENSG00000279198	TEC	61.64559882	26.69199828	-1.212216739	0.000104177	0.001250509	Down
ENSG00000279518.1	ENSG00000279518	TEC	41.41834145	72.98075554	0.82057501	0.003475821	0.020179345	Up
ENSG00000279970.1	ENSG00000279970	TEC	80.75880951	39.50676874	-1.027346733	0.001066084	0.00818181	Down
ENSG00000285925.1	ENSG00000285925	lncRNA	56.93005696	24.35385276	-1.226242397	0.000589747	0.00504173	Down
ENSG00000286451.1	ENSG00000286451	lncRNA	73.76671088	39.13029715	-0.912050802	0.000669935	0.005596749	Down
ENSG00000288728.2	ENSG00000288728	lncRNA	44.65105113	74.5148492	0.740794294	0.006398297	0.032298564	Up

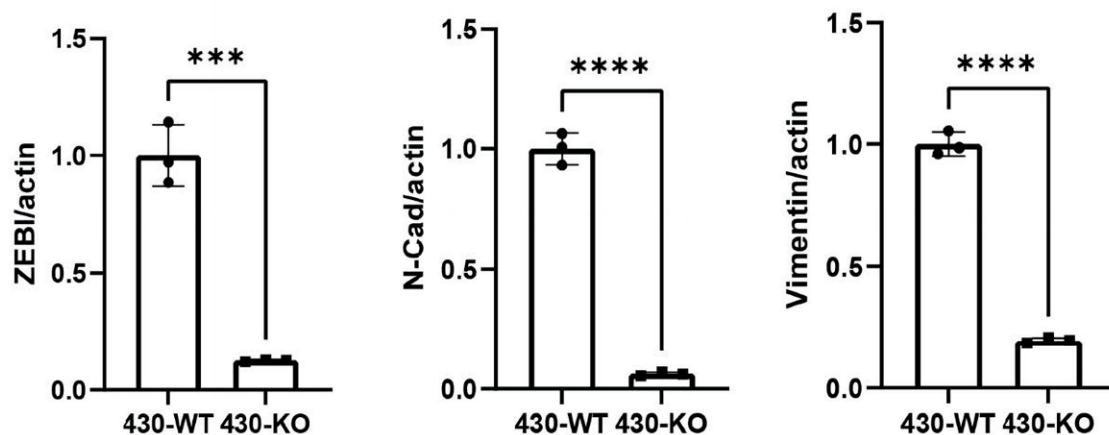
Supplementary figures



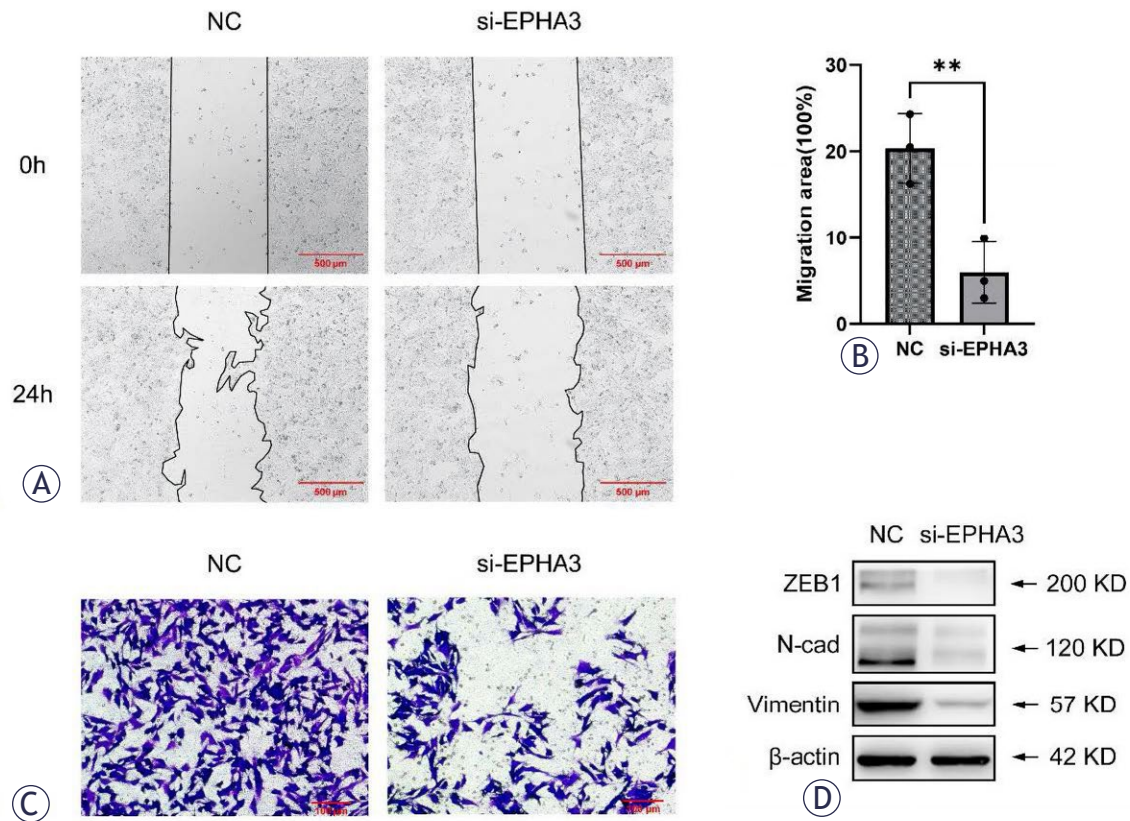
SUPPLEMENTARY FIGURE S1. Immunohistochemistry (IHC) analysis of EPHA3 in paraffin-embedded sections of tumors from 11 GIST patients, including 5 intermediate-risk and 6 high-risk cases. Original magnification, 200 $\times$; scale bar = 100 μ m.



SUPPLEMENTARY FIGURE S2. Band intensities from Western blots (Figure 2A) were quantified using ImageJ (NIH). The relative expression levels of Bcl-2, Bax, PCNA, and cleaved caspase-3 were calculated by normalizing each target protein to β -actin. The Bcl-2/Bax ratio was calculated from the corresponding band intensities. Data from three independent experiments were averaged, and values were normalized to the mean of the 430-WT group, which was set to 1. Data are shown as mean $\pm$ SD from three independent experiments. Statistical significance was determined by paired t-test. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.



SUPPLEMENTARY FIGURE S3. Band intensities from Western blots (Figure 3D) were quantified using ImageJ (NIH). The relative expression levels of ZEB1, N-cadherin, and Vimentin were calculated by normalizing each target protein to β -actin. Data from three independent experiments were averaged, and values were normalized to the mean of the 430-WT group, which was set to 1. Data are shown as mean $\pm$ SD from three independent experiments. Statistical significance was determined by paired t-test. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.



SUPPLEMENTARY FIGURE S4. EPHA3 knockdown inhibits the migration of GIST-430 cells. **(A-B)** Wound-healing assay showing the migratory capacity of GIST-430 cells transfected with negative control siRNA (NC) or si-EPHA3 at 0 and 24 h. Scale bar = 500 μ m. **(C)** Transwell migration assay showing the migratory ability of GIST-430 cells transfected with NC or si-EPHA3. **(D)** Representative Western blot images showing the expression of EPHA3, ZEB1, N-cadherin, and Vimentin in GIST-430 cells transfected with NC or si-EPHA3, with β -actin as the loading control. Data are presented as the mean $\pm$ SD from three independent experiments, ** $p < 0.01$.