

HTG EdgeSeq PATH Assay Gene List

Symbol	Number	Name	Aliases
ABCB1	NM_000927	ATP binding cassette subfamily B member 1	CLCS; MDR1; P-GP; PGY1; ABC20; CD243; GP170
ACP5	NM_001111034	acid phosphatase 5, tartrate resistant	HPAP; TRAP; TRACP5a; TRACP5b; TrATPase
ACPP	NM_001099	acid phosphatase, prostate	ACP3; 5'-NT; ACP-3
ACTA1	NM_001100	actin, alpha 1, skeletal muscle	ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; SHPM; CFTD1; CFTDM
ACTA2	NM_001613	Actin, alpha 2, smooth muscle, aorta	AAT6, ACTSA, MYMY5
ACTB	NM_001101	Actin, beta	BRWS1, PS1TP5BP1
ADORA2A	NM_000675	adenosine A2a receptor	A2aR; RDC8; ADORA2
AFP	NM_001134	alpha fetoprotein	AFPD; FETA; HPAFP
AKT1	NM_005163	v-akt murine thymoma viral oncogene homolog 1	RAC, PKB, PRKBA, AKT
ALB	NM_000477	Albumin	PRO0883, PRO0903, PRO1341
ALDH1A1	NM_000689	Aldehyde dehydrogenase 1 family, member A1	ALDC, ALDH-E1, ALDH1, ALDH11, HEL-S-53e, HEL12, PUMB1, RALDH1
ALK	NM_004304	anaplastic lymphoma receptor tyrosine kinase	CD246, NBLST3
ALPP	NM_001099	acid phosphatase, prostate	ACP3; 5'-NT; ACP-3
AMACR	NM_014324	alpha-methylacyl-CoA racemase	RM; RACE; CBAS4; AMACRD
ANKRD30A	NM_052997	ankyrin repeat domain 30A	NY-BR-1
ANO1	NM_018043	anoctamin 1	DOG1; TAOS2; ORAOV2; TMEM16A
ANPEP	NM_001150	Alanyl (membrane) aminopeptidase	APN, CD13, GP150, LAP1, P150, PEPN
ANXA1	NM_000700	Annexin A1	ANX1, LPC1
APCS	NM_001639	Amyloid P component, serum	HEL-S-92n, PTX2, SAP
APOD	NM_001647	apolipoprotein D	None
APP	NM_000484	amyloid beta precursor protein	AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma
AR	NM_001011645	androgen receptor	DHTR, SBMA, AIS, NR3C4, SMAX1, HUMARA
ARG1	NM_000045	arginase 1	None
ATF2	NM_001880	Activating transcription factor 2	CRE-BP1, CREB2, HB16, TREB7
AURKA	NM_003600	Aurora kinase A	AIK, ARK1, AURA, AURORA2, BTAK, PPP1R47, STK15, STK6, STK7
B2M	NM_004048	beta-2-microglobulin	IMD43
B3GAT1	NM_018644	beta-1,3-glucuronyltransferase 1	NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP
BAG1	NM_004323	BCL2-associated athanogene	BAG-1, HAP, RAP46

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

BAX	NM_138761	BCL2-associated X protein	BCL2L4
BCL10	NM_003921	B-cell CLL/lymphoma 10	CARMEN, CIPER, CLAP, c-E10, mE10
BCL2	NM_000657	B-cell CLL/lymphoma 2	Bcl-2, PPP1R50
BCL6	NM_001706	B-cell CLL/lymphoma 6	BCL5, BCL6A, LAZ3, ZBTB27, ZNF51
BIRC5	NM_001168	Baculoviral IAP repeat containing 5	API4, EPR-1, survivin
BRAF	NM_004333	B-Raf proto-oncogene, serine/threonine	NS7; B-raf; BRAF1; RAFB1; B-RAF1
BRCA1	NM_007305	breast cancer 1, early onset	RNF53, BRCC1, PPP1R53
BTLA	NM_181780	B and T lymphocyte associated	BTLA1; CD272
C1QA	NM_015991	Complement 1, q subcomponent, A chain	None
C3	NM_000064	Complement 3	AHUS5, ARMD9, ASP, C3a, C3b, CPAMD1, HEL-S-62p
C4B	NM_001002029	complement C4B (Chido blood group)	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3
C5	NM_001735	Complement 5	C5D; C5a; C5b; ECLZB; CPAMD4
CA9	NM_001216	Carbonic anhydrase IX	CAIX, MN
CALCA	NM_001741	calcitonin related polypeptide alpha	CT; KC; PCT; CGRP; CALC1; CGRP1; CGRP-I
CALD1	NM_004342	Caldesmon 1	CDM, H-CAD, HCAD, L-CAD, LCAD, NAG22
CALR	NM_004343	Calreticulin	CRT, HEL-S-99n, RO, SSA, cC1qR
CARD11	NM_032415	caspase recruitment domain family, member 11	CARMA1, BIMP3
CASP3	NM_032991	caspase 3, apoptosis-related cysteine peptidase	CPP32, CPP32B, Yama, apopain
CASP7	NM_001227	caspase 7, apoptosis-related cysteine peptidase	MCH3, CMH-1, ICE-LAP3
CASP8	NM_001228	caspase 8, apoptosis-related cysteine peptidase	MCH5, MACH, FLICE, Casp-8
CASP9	NM_001229	caspase 9, apoptosis-related cysteine peptidase	MCH6, ICE-LAP6, APAF-3, PPP1R56
CAV1	NM_001753	Caveolin 1	CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085
CCNB1	NM_031966	cyclin B1	CCNB
CCND1	NM_053056	cyclin D1	BCL1, D11S287E, PRAD1, U21B31
CD14	NM_000591	CD14 molecule	None
CD163	NM_004244	CD163 molecule	M130; MM130; SCAR1I
CD19	NM_001770	CD19 molecule	B4; CVID3

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

CD1A	NM_001763	CD1a molecule	R4; T6; CD1; FCB6; HTA1
CD2	NM_001767	CD2 molecule	LFA-2, SRBC, T11
CD200	NM_001004196	CD200 molecule	MRC; MOX1; MOX2; OX-2
CD207	NM_015717	CD207 molecule	CLEC4K
CD22	NM_001771	CD22 molecule	SIGLEC-2, SIGLEC2
CD247	NM_198053	CD247 molecule	T3Z; CD3H; CD3Q; CD3Z; TCRZ; IMD25; CD3-ZETA
CD27	NM_001242	CD27 molecule	S152, S152. LPFS2, T14, TNFRSF7, Tp55
CD274	NM_014143	CD274 molecule	B7-H, B7H1, PDL1, PD-L1, PDCD1L1, PDCD1LG1
CD276	NM_025240	CD276 molecule	B7H3, B7-H3, B7RP-2, 4Ig-B7-H3
CD28	NM_006139	CD28 molecule	Tp44
CD33	NM_001772	CD33 molecule	p67; SIGLEC3; SIGLEC-3
CD34	NM_001773	CD34 molecule	None
CD38	NM_001775	CD38 molecule	ADPRC1; ADPRC 1
CD3D	NM_000732	CD3d molecule, delta (CD3-TCR complex)	T3D; IMD19; CD3-DELTA
CD3E	NM_000733	CD3e molecule	T3E; TCRE; IMD18
CD3G	NM_000073	CD3g molecule	T3G; IMD17; CD3-GAMMA
CD4	NM_000616	CD4 molecule	CD4mut
CD40	NM_001250	CD40 molecule, TNF receptor superfamily member 5	Bp50, CDW40, TNFRSF5, p50
CD40LG	NM_000074	CD40 ligand	CD154, CD40L, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L
CD44	NM_000610	CD44 molecule (Indian blood group)	CDW44, CSPG8, ECMR-III, HCELL, HUTCH-I, IN, LHR, MC56, MDU2, MDU3, MIC4, Pgp1
CD5	NM_014207	CD5 molecule	LEU1, T1
CD52	NM_001803	CD52 molecule	CDW52
CD55	NM_000574	CD55 molecule, decay accelerating factor for complement (Cromer blood group)	CR, CROM, DAF, TC
CD59	NM_000611	CD59 molecule, complement regulatory protein	16.3A5, 1F5, EJ16, EJ30, EL32, G344, HRF-20, HRF20, MAC-IP, MACIF, MEM43, MIC11, MIN1, MIN2, MIN3, MIRL, MSK21, p18-20
CD63	NM_001780	CD63 molecule	MLA1; ME491; LAMP-3; OMA81H; TSPAN30
CD68	NM_001251	CD68 molecule	GP110, LAMP4, SCARD1
CD69	NM_001781	CD69 molecule	AIM; EA1; MLR-3; CLEC2C; GP32/28; BL-AC/P26

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

CD7	NM_006137	CD7 molecule	GP40; TP41; Tp40; LEU-9
CD70	NM_001252	CD70 molecule	CD27L, CD27LG, TNFSF7
CD74	NM_004355	CD74 molecule, major histocompatibility complex, class II invariant chain	II; DHLAG; HLADG; Ia-GAMMA
CD79A	NM_001783	CD79a molecule, immunoglobulin-associated alpha	IGA, MB-1
CD79B	NM_000626	CD79b molecule	B29; IGB; AGM6
CD80	NM_005191	CD80 molecule	B7, B7-1, B7.1, BB1, CD28LG, CD28LG1, LAB7
CD83	NM_004233	CD83 molecule	BL11, HB15
CD86	NM_006889	CD86 molecule	B7-2, B7.2, B70, CD28LG2, LAB72
CD8A	NM_001768	CD8a molecule	CD8, Leu2, MAL, p32
CD9	NM_001769	CD9 molecule	MIC3; MRP-1; BTCC-1; DRAP-27; TSPAN29; TSPAN-29
CD99	NM_001122898	CD99 molecule	MIC2; HBA71; MIC2X; MIC2Y; MSK5X
CDA	NM_001785	cytidine deaminase	CDD
CDC73	NM_024529	cell division cycle 73	HYX; FIHP; HPTJT; HRPT1; HRPT2; C1orf28
CDH1	NM_004360	cadherin 1	UVO; CDHE; ECAD; LCAM; Arc-1; CD324
CDK4	NM_000075	cyclin-dependent kinase 4	PSK-J3
CDKN1A	NM_000389	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	CDKN1, P21, CIP1, WAF1, SDI1, CAP20, p21CIP1, p21Cip1/Waf1
CDKN1B	NM_004064	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	KIP1, P27KIP1
CDKN1C	NM_000076	cyclin-dependent kinase inhibitor 1C (p57, Kip2)	BWCR, BWS, P57, KIP2
CDKN2A	NM_000077	cyclin-dependent kinase inhibitor 2A	CDKN2, MLM, CDK4I, p16, INK4a, MTS1, CMM2, ARF, p19, p14, INK4, p16INK4a, p19Arf
CDX2	NM_001265	caudal type homeobox 2	CDX3; CDX-3; CDX2/AS
CEACAM1	NM_001712	carcinoembryonic antigen related cell adhesion molecule 1	BGP; BGP1; BGPI
CEACAM5	NM_004363	carcinoembryonic antigen-related cell adhesion molecule 5	CEA, CD66e
CGA	NM_000735	glycoprotein hormones, alpha polypeptide	HCG; LHA; FSHA; GPHa; TSHA; GPHA1; CG-ALPHA
CGB Family	NM_000737	chorionic gonadotropin beta subunit 3	CGB; CGB5; CGB6, CGB7; CGB8; hCGB, HCG, CG-beta-a
CHGA	NM_001275	Chromogranin A (parathyroid secretory protein 1)	CGA

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

CHUK	NM_001278	conserved helix-loop-helix ubiquitous kinase	TCF16, IKK1, IKK-alpha, IkbKA, NFKB1KA, IKKA
CITED1	NM_004143	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 1	MSG1
CKAP4	NM_006825	cytoskeleton associated protein 4	p63; CLIMP-63; ERGIC-63
CLDN1	NM_021101	claudin 1	CLD1; SEMP1; ILVASC
CLDN4	NM_001305	claudin 4	CPER; CPE-R; CPETR; CPETR1; WBSCR8; hCPE-R
CLDN7	NM_00130	claudin 7	CLDN-7; CEPTRL2; CPETRL2; Hs.84359; claudin-1
CMPK1	NM_016308	cytidine/uridine monophosphate kinase 1	CK; CMK; UMK; CMPK; UMPK; UMP-CMPK
CNN1	NM_001299	calponin 1	SMCC; Sm-Calp; HEL-S-14
COL4A1	NM_001303110	collagen type IV alpha 1 chain	BSVD; RATOR
CPS1	NM_001122633	carbamoyl-phosphate synthase 1	PHN; CPSASE1
CR1	NM_000573	complement C3b/C4b receptor 1 (Knops blood group)	KN; C3BR; C4BR; CD35
CR2	NM_001877	complement C3d receptor 2	CR; C3DR; CD21; CVID7; SLEB9
CRP	NM_000567	C-reactive protein, pentraxin-related	PTX1
CSH1	NM_001317	chorionic somatomammotropin hormone 1	PL; CSA; CS-1; CSMT; GHB3; hCS-1; hCS-A
CTAG1B	NM_001327	cancer/testis antigen 1B	CTAG; ESO1; CT6.1; CTAG1; LAGE-2; LAGE2B; NY-ESO-1
CTLA4	NM_005214	cytotoxic T-lymphocyte-associated protein 4	CD, GSE, GRD4, CD152, CTLA-4, IDDM12, CELIAC3
CTNNB1	NM_001904	catenin (cadherin-associated protein), beta 1, 88kDa	CTNNB, beta-catenin, armadillo
CTNND1	NM_001331	catenin delta 1	CAS; p120; CTNND; P120CAS; P120CTN; p120(CAS); p120(CTN)
CTSB	NM_001908	Cathepsin B	APPS, CPSB
CTSD	NM_001909	Cathepsin D	CLN10, CPSD, HEL-S-130P
CTSK	NM_000396	cathepsin K	CTSO; PKND; PYCD; CTS02; CTSO1; CTSO2
CXCR6	NM_006564	Chemokine (C-X-C motif) receptor 6	BONZO, CD186, STRL33, TYMSTR
CYP1A2	NM_000761	cytochrome P450, family 1, subfamily A, polypeptide 2	CP12, P3-450, P450(PA)
CYP2B6	NM_000767	cytochrome P450, family 2, subfamily B, polypeptide 6	CPB6, EFVM, IIB1, P450, CYP2B, CYP2B7, CYP2B7P, CYP1IB6
CYP2C19	NM_000769	cytochrome P450, family 2, subfamily C, polypeptide 19	CPCJ, CYP2C, P450C2C, P450IIC19
CYP2C8	NM_000770	cytochrome P450, family 2, subfamily C, polypeptide 8	CPC8, CYP1IC8, MP-12/MP-20

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

CYP2C9	NM_000771	cytochrome P450, family 2, subfamily C, polypeptide 9	CPC9, CYP2C, CYP2C10, CYP2C9, P450IIC9
CYP2D6	NM_000106	cytochrome P450, family 2, subfamily D, polypeptide 6	CPD6, CYP2D, CYP2DL1, CYP2D6, P450C2D, P450DB1, CYP2D7AP, CYP2D7BP, CYP2D7P2, CYP2D8P2, P450-DB1
CYP3A4	NM_017460	cytochrome P450, family 3, subfamily A, polypeptide 4	HLP, CP33, CP34, CYP3A, NF-25, CYP3A3, P450C3, CYP3A3, CYP3A4, P450PCN1
DCC	NM_005215	DCC netrin 1 receptor	CRC18; CRCR1; MRMV1; IGDC1; NTN1R1
DES	NM_001927	Desmin	CSM1, CSM2, LGMD2R
DMD	NM_000109	dystrophin	BMD, CMD3B, MRX85, DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272
DNTT	NM_004088	Deoxynucleotidyltransferase, terminal	TDT
DPP4	NM_001935	dipeptidyl peptidase 4	CD26; ADABP; ADCP2; DPP4; TP103
DPYD	NM_000110	dihydropyrimidine dehydrogenase	DHP; DPD; DHPDHASE
DSG3	NM_001944	desmoglein 3	PVA; CDHF6
EGFR	NM_201282	epidermal growth factor receptor	ERBB, ERBB1
EIF4E	NM_001968	Eukaryotic translation initiation factor 4E	AUTS19, CBP, EIF4E1, EIF4EL1, EIF4F
ELANE	NM_001972	elastase, neutrophil expressed	GE; NE; HLE; HNE; ELA2; SCN1; PMN-E
ENG	NM_000118	Endoglin	END, HHT1, ORW1
ENO2	NM_001975	enolase 2	NSE; HEL-S-279
ENTPD1	NM_001776	ectonucleoside triphosphate diphosphohydrolase 1	CD39, SPG64, ATPDase, NTPDase-1
EPCAM	NM_002354	Epithelial cell adhesion molecule	DIAR5, EGP-2, EGP314, EGP40, ESA, HNPCC8, KS1, 4, KSA, M4S1, MIC18, MK-1, TACSTD1, TROP1
ERBB2	NM_004448.2	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2	NGL, NEU, HER-2, CD340, HER2
ERBB3	NM_001982	V-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	ErbB-3, HER3, LCCS2, MDA-BF-1, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3
ERBB4	NM_005235	V-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian)	ALS19, HER4, p180erbB4
ERCC1	NM_001983	Excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)	COFS4, RAD10, UV20
ERG	NM_004449	v-ets avian erythroblastosis virus E26 oncogene homolog	p55; erg-3

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

ESR1	NM_000125	Estrogen receptor 1	ER, ESR, ESRA, ESTRR, Era, NR3A1
ESR2	NM_001437	Estrogen receptor 2 (ER beta)	ER-BETA, ESR-BETA, ESRB, ESTRB, Erb, NR3A2
EZH2	NM_004456.3	enhancer of zeste homolog 2 (Drosophila)	EZH1, ENX-1, KMT6, KMT6A
F13A1	NM_000129	coagulation factor XIII A chain	F13A
F8	NM_000132	Coagulation factor VIII, procoagulant component	AHF, DXS1253E, F8B, F8C, FVIII, HEMA
FAS	NM_152876.1	Fas cell surface death receptor	FAS1, APT1, TNFRSF6, CD95, APO-1
FCER2	NM_002002	Fc fragment of IgE, low affinity II, receptor for (CD23)	BLAST-2, CD23, CD23A, CLEC4J, FCE2, IGEBF
FCGR1A	NM_000566	Fc fragment of IgG, high affinity Ia, receptor (CD64)	CD64, CD64A, FCRI, IGFR1
FCGR2A	NM_021642	Fc fragment of IgG receptor IIa	CD32; FCG2; FcGR; CD32A; CDw32; FCGR2; IGFR2; FCGR2A1
FCGR3A/FCGR3B	NM_000569	Fc fragment of IgG receptor IIIa/IIIb	CD16; FCG3; CD16A; FCGR3; IGFR3; IMD20; FCR-10; FCRIII; FCGRIII; FCRIIIA, FCRIIIB
FLI1	NM_002017	Fli-1 proto-oncogene, ETS transcription factor	EWSR2; SIC-1
FLT3	NM_004119.1	fms-related tyrosine kinase 3	STK1, FLK2, CD135
FOLH1	NM_004476	folate hydrolase 1	PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1; NAALAdase
FOXP1	NM_032682	Forkhead box P1	12CC4, QRF1, hFKH1B
FOXP3	NM_014009	Forkhead box P3	AIID, DIETER, IPEX, PIDX, XPID
FSCN1	NM_003088	fascin actin-bundling protein 1	HSN; SNL; p55; FAN1
FSHB	NM_000510	follicle stimulating hormone beta subunit	HH24
FUT2	NM_000511	fucosyltransferase 2	SE; Se2; sej; SEC2; B12QTL1
FUT3	NM_000149	fucosyltransferase 3 (Lewis blood group)	LE; Les; FT3B; CD174; FucT-III
FUT4	NM_002033	fucosyltransferase 4	LeX; CD15; ELFT; FCT3A; FUTIV; SSEA-1; FUC-TIV
FYN	NM_002037	FYN proto-oncogene, Src family tyrosine kinase	SLK, SYN, p59-FYN
GAPDH	NM_002046	Glyceraldehyde-3-phosphate dehydrogenase	G3PD, GAPD
GAST	NM_000805	gastrin	GAS
GATA3	NM_001002295.1	GATA binding protein 3	HDR
GCSAM	NM_152785	germinal center associated signaling and motility	HGAL; GCAT2; GCET2
GFAP	NM_002055	Glial fibrillary acidic protein	ALXDRD

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

GH1	NM_000515	growth hormone 1	GH; GHN; GH-N; GHB5; hGH-N; IGHD1B
GLUL	NM_002065	Glutamate-ammonia ligase	GLNS, GS, PIG43, PIG59
GMNN	NM_015895	geminin, DNA replication inhibitor	Gem; MGORS6
GP9	NM_000174	glycoprotein IX platelet	GPIX; CD42a
GPC3	NM_004484	glypican 3	SGB; DGSX; MXR7; SDYS; SGBS; OCI-5; SGBS1; GTR2-2
GPT	NM_005309	glutamic--pyruvic transaminase	AAT1; ALT1; GPT1
GRB2	NM_002086.4	growth factor receptor-bound protein 2	NCKAP2
GRB7	NM_005310	Growth factor receptor-bound protein 7	None
GSTM1	NM_000561	glutathione S-transferase mu 1	MU, H-B, GST1, GTH4, GTM1, MU-1, GSTM1-1, GSTM1a-1a, GSTM1b-1b
GSTP1	NM_000852	Glutathione S-transferase pi 1	DFN7, FAEES3, GST3, GSTP, HEL-S-22, PI
GUSB	NM_000181	glucuronidase, beta	BG, MPS7
GYPA	NM_002099	glycophorin A (MNS blood group)	MN; GPA; MNS; GPSAT; PAS-2; CD235a; GPErik; HGpMiV; HGpMiXI; HGpSta(C)
GYPC	NM_002101	glycophorin C (Gerbich blood group)	GE; GPC; GPD; GYPD; CD236; PAS-2; CD236R; PAS-2'
GZMB	NM_004131.3	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	CTLA1, CSPB, CCPI, CGL-1, CSP-B, CGL1, CTSSL1, HLP, SECT
GZMM	NM_005317	granzyme M	MET1; LMET1
HAVCR2	NM_032782	hepatitis A virus cellular receptor 2	TIM3, KIM-3, TIMD3, Tim-3, TIMD-3, HAVcr-2
HDAC1	NM_004964.2	histone deacetylase 1	RPD3L1, HD1, GON-10
HDAC2	NM_001527.1	histone deacetylase 2	RPD3, YAF1
HLA-A	NM_002116	major histocompatibility complex, class I, A	HLAA
HLA-B	NM_005514	major histocompatibility complex, class I, B	AS; HLAB; B-4901
HLA-C	NM_002117	major histocompatibility complex, class I, C	MHC; HLAC; HLC-C; D6S204; PSORS1; HLA-JY3
HLA-DPA1	NM_033554	major histocompatibility complex, class II, DP alpha 1	PLT1; HLADP; HLASB; DP(W3); DP(W4); HLA-DP1A
HLA-DPB1	NM_002121	major histocompatibility complex, class II, DP beta 1	DPB1; HLA-DP; HLA-DPB; HLA-DP1B
HLA-DQA1	NM_002122	major histocompatibility complex, class II, DQ alpha 1	DQ-A1; CELIAC1; HLA-DQA
HLA-DQB1	NM_002123	major histocompatibility complex, class II, DQ beta 1	IDDM1; CELIAC1; HLA-DQB
HLA-DRA	NM_019111	major histocompatibility complex, class II, DR alpha	HLA-DRA1

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

HLA-DRB1	NM_002124	major histocompatibility complex, class II, DR beta 1	SS1; DRB1; HLA-DRB; HLA-DR1B
HLA-E	NM_005516	Major histocompatibility complex, class I, E	EA1.2, EA2.1, HLA-6.2, MHC, QA1
HRAS	NM_005343.2	Harvey rat sarcoma viral oncogene homolog	HRAS1
HSP90AA1	NM_001017963	Heat shock protein 90kDa alpha (cytosolic), class A member 1	EL52, HSP86, HSP89A, HSP90A, HSP90N, HSPC1, HSPCA, HSPCAL1, HSPCAL4, HSPN, Hsp89, Hsp90, LAP2
HSPB1	NM_001540.3	heat shock 27kDa protein 1	HSP27, HSP28, Hs.76067, Hsp25
HTR5A	NM_024012	5-hydroxytryptamine receptor 5A	5-HT5A
ICAM1	NM_000201	Intercellular adhesion molecule 1	BB2, CD54, P3.58
ICOS	NM_012092	inducible T-cell co-stimulator	AILIM, CD278, CVID1
ICOSLG	NM_015259	inducible T-cell costimulator ligand	B7H2; GL50; B7-H2; B7RP1; CD275; ICOSL; LICOS; B7RP-1; ICOS-L
IDH1	NM_005896.2	isocitrate dehydrogenase 1 (NADP+), soluble	IDH; IDP; IDCD; IDPC; PICD; HEL-216; HEL-S-26
IDO1	NM_002164	indoleamine 2,3-dioxygenase 1	IDO, INDO, IDO-1
IGF1R	NM_000875.2	insulin-like growth factor 1 receptor	JTK13, CD221, IGFIR, MGC18216, IGFR
IGHA1	NG_001019	immunoglobulin heavy constant alpha 1	IgA1
IGHA2	NG_001019	immunoglobulin heavy constant alpha 2 (A2m marker)	None
IGHD	NG_001019	immunoglobulin heavy constant delta	None
IGHE	NG_001019	immunoglobulin heavy constant epsilon	IgE
IGHG1	NG_001019	immunoglobulin heavy constant gamma 1 (G1m marker)	None
IGHG2	NG_001019	immunoglobulin heavy constant gamma 2 (G2m marker)	None
IGHG3	NG_001019	immunoglobulin heavy constant gamma 3 (G3m marker)	IgG3
IGHG4	NG_001019	immunoglobulin heavy constant gamma 4 (G4m marker)	None
IGHM	NG_001019	immunoglobulin heavy constant mu	MU; VH; AGM1
IL2RA	NM_000417.1	interleukin 2 receptor, alpha	IL2R, CD25
IL3R	NM_001267713	interleukin 3 receptor subunit alpha	IL3R; CD123; IL3RX; IL3RY; IL3RAY; hIL-3Ra
IMP3	NM_018285	IMP3, U3 small nucleolar ribonucleoprotein	BRMS2; MRPS4; C15orf12
INHA	NM_002191	inhibin alpha subunit	None

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

INS	NM_000207	Insulin	IDDM2, ILPR, IRDN, MODY10
IRF4	NM_002460	Interferon regulatory factor 4	MUM1, LSIRF, NF-EM5
IRF7	NM_001572	interferon regulatory factor 7	IMD39; IRF7A; IRF7B; IRF7C; IRF7H; IRF-7H
IRF8	NM_002163	Interferon regulatory factor 8	ICSBP, IRF-8, ICSBP1, H-ICSBP
ISL1	NM_002202	ISL LIM homeobox 1	ISLET1, Isl-1
ITGAE	NM_002208	integrin subunit alpha E	CD103; HUMINAE
ITGAL	NM_001114380	integrin subunit alpha L	CD11A; LFA-1; LFA1A
ITGAM	NM_000632	Integrin, alpha M (complement component 3 receptor 3 subunit)	CD11B, CR3A, MAC-1, MAC1A, MO1A, SLEB6
ITGAV	NM_002210	Integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)	CD51, MSK8, VNRA, VTNR
ITGAX	NM_000887	integrin subunit alpha X	CD11C; SLEB6
ITGB3	NM_000212.2	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	GP3A, CD61, GPIIIa
KIT	NM_000222.1	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	PBT, CD117, SCFR, C-Kit
KLK3	NM_001648	Kallikrein-related peptidase 3	APS, KLK2A1, PSA, hK3
KRT10	NM_000421	keratin 10	BIE; EHK; K10; KPP; BCIE; CK10
KRT13	NM_002274	keratin 13	K13; CK13; WSN2
KRT14	NM_000526	Keratin 14	CK14, EBS3, EBS4, K14, NFJ
KRT15	NM_002275	keratin 15	K15; CK15; K1CO
KRT17	NM_000422	keratin 17	PC; K17; PC2; PCHC1
KRT18	NM_000224	Keratin 18	CYK18, K18
KRT19	NM_002276	Keratin 19	CK19, K19, K1CS
KRT20	NM_019010	keratin 20	K20; CD20; CK20; CK-20; KRT21
KRT5	NM_000424	Keratin 5	CK5, DDD, DDD1, EBS2, K5, KRT5A
KRT7	NM_005556	Keratin 7	CK7, K2C7, K7, SCL
KRT8	NM_002273	Keratin 8	CARD2, CK-8, CK8, CYK8, K2C8, K8, KO
LAG3	NM_002286	lymphocyte-activation gene 3	CD223
LAMA5	NM_005560.3	laminin, alpha 5	None
LAMC2	NM_005562.2	laminin, gamma 2	EBR2, LAMB2T, LAMNB2, EBR2A, nicein-100kDa, kalinin-105kDa, BM600-100kDa
LAMP3	NM_014398	lysosomal associated membrane protein 3	LAMP; CD208; DCLAMP; LAMP-3; TSC403; DC LAMP; DC-LAMP

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

LCK	NM_005356	LCK proto-oncogene, Src family tyrosine kinase	LSK; YT16; IMD22; p56lck; pp58lck
LEF1	NM_016269.3	lymphoid enhancer-binding factor 1	TCF1ALPHA, TCF10, TCF7L3
LGALS3	NM_002306	Lectin, galactoside-binding, soluble, 3	CBP35, GAL3, GALBP, GALIG, L31, LGALS2, MAC2
LGALS9	NM_009587	galectin 9	HUAT; LGALS9A
LHB	NM_000894	luteinizing hormone beta polypeptide	CGB4; HH23; LSH-B; LSH-beta
LMO2	NM_005574	LIM domain only 2 (rhotobtin-like 1)	RBTN2, RBTNL1, RHOM2, TTG2
LTF	NM_002343	lactotransferrin	LF; HLF2; GIG12; HEL110
LY75	NM_002349	lymphocyte antigen 75	CD205; LY-75; CLEC13B; DEC-205; GP200-MR6
LYZ	NM_000239	Lysozyme	LZM
MAGEA1	NM_004988	melanoma antigen family A, 1 (directs expression of antigen MZ2-E)	CT1.1, MAGE1
MB	NM_203377	myoglobin	PVALB; myoglobin
MBP	NM_00102508	myelin basic protein	None
MCL1	NM_021960	Myeloid cell leukemia sequence 1 (BCL2-related)	BCL2L3, EAT, MCL1-ES, MCL1L, MCL1S, Mcl-1, TM, bcl2-L-3, mcl1
MCM2	NM_004526.2	minichromosome maintenance complex component 2	CCNL1, CDCL1, D3S3194, KIAA0030, BM28, cdc19
MCM3	NM_002388	Minichromosome maintenance complex component 3	HCC5, P1-MCM3, P1.h, RLF3
MEN1	NM_000244	menin 1	MEAI; SCG2
MET	NM_000245	MET proto-oncogene, receptor tyrosine kinase	HGFR; AUTS9; RCCP2; c-Met; DFNB97
MGMT	NM_002412.3	O-6-methylguanine-DNA methyltransferase	None
MITF	NM_198159	melanogenesis associated transcription factor	MI; WS2; CMM8; WS2A; bHLHe32
MKI67	NM_002417	Antigen identified by monoclonal antibody Ki-67	KIA, MIB-1
MLANA	NM_005511	melan-A	MART1; MART-1
MLH1	NM_000249.2	mutL homolog 1	COCA2, HNPCC, FCC2, HNPCC2
MME	NM_000902	Membrane metallo-endopeptidase	CALLA, CD10, NEP, SFE
MMP11	NM_005940	matrix metalloproteinase 11 (stromelysin 3)	ST3, SL-3, STMY3
MMP3	NM_002422.3	matrix metalloproteinase 3 (stromelysin 1, progelatinase)	STMY1, STMY
MPL	NM_005373.2	myeloproliferative leukemia virus oncogene	CD110, TPOR

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

MPO	NM_000250.1	myeloperoxidase	None
MS4A1	NM_021950	Membrane-spanning 4-domains, subfamily A, member 1	B1, Bp35, CD20, CVID5, LEU-16, MS4A2, S7
MSH2	NM_000251.1	mutS homolog 2	COCA1, HNPCC, HNPCC1
MSH6	NM_000179.1	mutS homolog 6	GTBP
MSLN	NM_001177355	mesothelin	MPF; SMRP
MST1R	NM_002447	Macrophage stimulating 1 receptor (c-met-related tyrosine kinase)	CD136, CDw136, PTK8, RON
MT1A	NM_005946	Metallothionein 1A	MT1, MT1S, MTC
MTOR	NM_004958.2	mechanistic target of rapamycin (serine/threonine kinase)	FRAP, FRAP2, FRAP1, RAFT1, RAP1, FLJ44809
MUC1	NM_001018016	Mucin 1, cell surface associated	CA 15-3, CD227, EMA, H23AG, KL-6, MAM6, MCKD1, MUC-1, MUC-1, SEC, MUC-1, X, MUC1, ZD, PEM, PENT, PUM
MUC16	NM_024690	mucin 16, cell surface associated	CA125
MUC2	NM_002457	mucin 2, oligomeric mucus/gel-forming	MUC2; SMUC; MUC-2
MUC4	NM_018406	mucin 4, cell surface associated	ASGP; MUC-4; HSA276359
MUC5AC	XM_001130382	mucin 5AC, oligomeric mucus/gel-forming	TBM; leB; MUC5; mucin
MUC5B	XM_001126093	mucin 5B, oligomeric mucus/gel-forming	MG1; MUC5; MUC9; MUC-5B
MUC6	XM_290540	mucin 6, oligomeric mucus/gel-forming	MUC-6
MYBL2	NM_002466	V-myb myeloblastosis viral oncogene homolog (avian)-like 2	B-MYB, BMYB
MYC	NM_002467	v-myc avian myelocytomatosis viral oncogene homolog	MRTL; MYCC; c-Myc; bHLHe39
MYH11	NM_00104011	myosin heavy chain 11	AAT4; FAA4; SMHC; SMMHC
MYOD1	NM_002478	Myogenic differentiation 1	MYF3, MYOD, PUM, bHLHc1
MYOG	NM_002479	myogenin	MYF4; myf-4; bHLHc3
NANOG	NM_024865	Nanog homeobox	None
NAPSA	NM_004851	napsin A aspartic peptidase	KAP; Kdap; NAP1; NAPA; SNAPA
NCAM1	NM_000615	Neural cell adhesion molecule 1	CD56, MSK39, NCAM
NCR1	NM_001145457	natural cytotoxicity triggering receptor 1	LY94; CD335; NKP46; NK-p46
NEFL	NM_006158	neurofilament, light polypeptide	NFL; NF-L; NF68; CMT1F; CMT2E; PPP1R110
NES	NM_006617	Nestin	Nbla00170

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

NF1	NM_000267.2	neurofibromin 1	WSS; NFNS; VRNF
NFASC	NM_001005388	neurofascin	NF; NRCAML
NFKB1	NM_003998.2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	KBF1, p105, NFKB-p50, p50, NF-kappaB, NFkappaB, NF-kB1
NGFR	NM_002507.1	nerve growth factor receptor	TNFRSF16, CD271, p75NTR
NKX2-1	NM_003317	NK2 homeobox 1	BCH; BHC; NK-2; TEBP; TTF1; NKX2A; T/EBP; TITF1; TTF-1; NKX2.1
NKX2-2	NM_002509	NK2 homeobox 2	NKX2B; NKX2.2
NKX3-1	NM_006167	NK3 homeobox 1	BAPX2, NKX3, NKX3.1, NKX3A
NOTCH1	NM_017617.3	notch 1	TAN1
NPM1	NM_002520.5	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	B23, NPM
NR5A1	NM_004959	nuclear receptor subfamily 5 group A member 1	ELP; SF1; FTZ1; POF7; SF-1; AD4BP; FTZF1; SPGF8; SRXY3; hSF-1
NT5E	NM_002526	5'-nucleotidase, ecto (CD73)	CALJA, CD73, E5NT, NT, NT5, NTE, eN, eNT
NTRK1	NM_001012331.1	neurotrophic tyrosine kinase, receptor, type 1	TRK, TRKA, MTC
NTRK2	NM_001007097.1	neurotrophic tyrosine kinase, receptor, type 2	TRKB
NTRK3	NM_001007156	neurotrophic receptor tyrosine kinase 3	TRKC; GP145-TrkC; gp145(trkC)
OLIG2	NM_005806	Oligodendrocyte lineage transcription factor 2	BHLHB1, OLIGO2, PRKCBP2, RACK17, bHLHe19
PAG1	NM_018440	Phosphoprotein associated with glycosphingolipid microdomains 1	CBP, PAG
PAX2	NM_000278	paired box 2	FSGS7; PAPRS
PAX5	NM_016734.1	paired box 5	BSAP
PAX8	NM_013953.3	paired box 8	None
PBRM1	NM_181042.3	polybromo 1	BAF180, PB1
PCNA	NM_002592.2	proliferating cell nuclear antigen	ATLD2
PDCD1	NM_005018	programmed cell death 1	PD1, PD-1, CD279, SLEB2, hPD-1, hPD-I, hSLE1
PDCD1LG2	NM_025239	programmed cell death 1 ligand 2	B7DC, Btdc, PDL2, CD273, PD-L2, PDCD1L2, bA574F11.2
PDGFRA	NM_006206.3	platelet-derived growth factor receptor, alpha polypeptide	CD140a, PDGFR2
PDGFRB	NM_002609.3	platelet-derived growth factor receptor, beta polypeptide	PDGFR, JTK12, CD140b, PDGFR1
PDPN	NM_006474	podoplanin	T1A; GP36; GP40; Gp38; OTS8; T1A2; TI1A; T1A-2; AGGRUS; HT1A-1; PA2.26
PDX1	NM_000209	pancreatic and duodenal homeobox 1	GSF; IPF1; IUF1; IDX-1; MODY4; PDX-1; STF-1; PAGEN1

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

PECAM1	NM_000442	Platelet/endothelial cell adhesion molecule	CD31, EndoCAM, GPIIA', PECA1, PECAM-1, endoCAM
PGR	NM_000926	Progesterone receptor	NR3C3, PR
PIP	NM_002652	prolactin induced protein	GPIP4; GCDFP15; GCDFP-15
PLAUR	NM_002659	Plasminogen activator, urokinase receptor	CD87, U-PAR, UPAR, URKR
PLK1	NM_005030	Polo-like kinase 1	PLK, STPK13
PMEL	NM_006928	premelanosome protein	P1; SI; SIL; ME20; P100; SILV; ME20M; gp100; ME20-M; PMEL17; D12S53E
PMS2	NM_000535	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	HNPCC4, PMS2CL, PMSL2
POMC	NM_001035256	proopiomelanocortin	LPH; MSH; NPP; POC; ACTH; CLIP
POU2AF1	NM_006235	POU class 2 associating factor 1	BOB1; OBF1; OCAB; OBF-1
POU2F2	NM_001207025	POU class 2 homeobox 2	OCT2; OTF2; Oct-2
POU5F1	NM_002701	POU class 5 homeobox 1	OCT3, OCT4, OTF-3, OTF3, OTF4, Oct-3, Oct-4
PPY	NM_002722	pancreatic polypeptide	PP; PNP
PRDM1	NM_182907.1	PR domain containing 1, with ZNF domain	BLIMP1, PRDI-BF1
PRF1	NM_005041	perforin 1 (pore forming protein)	P1, PFP, FLH2, PFN1, HPLH2
PRL	NM_000948.3	prolactin	GHA1
PSCA	NM_005672	prostate stem cell antigen	PRO232
PTEN	NM_000314.3	phosphatase and tensin homolog	BZS, MHAM, MMAC1, TEP1, PTEN1
PTGS2	NM_000963	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	COX-2, COX2, GRIPGHS, PGG, HS, PGHS-2, PHS-2, hCox-2
PTH	NM_000315	parathyroid hormone	PTH1
PTHLH	NM_002820	parathyroid hormone-like hormone	HHM; PLP; BDE2; PTHR; PTHRP
PTPRC_pan	NM_002838	protein tyrosine phosphatase, receptor type C	CD45 pan
PTPRC_RA	NM_002838	protein tyrosine phosphatase, receptor type C	CD45 RA
PTPRC_RB	NM_002838	protein tyrosine phosphatase, receptor type C	CD45 RB
PTPRC_RC	NM_002838	protein tyrosine phosphatase, receptor type C	CD45 RC
PTPRC_RO	NM_002838	protein tyrosine phosphatase, receptor type C	CD45 RO
PVALB	NM_002854	parvalbumin	D22S749

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

PVRL1	NM_002855	nectin cell adhesion molecule 1	ED4; PRR; HlgR; HV1S; HVEC; OFC7; PRR1; PVRR; CD111; NECTIN1; PVRR1; SK-12; CLPED1; nectin-1
RAF1	NM_002880.2	v-raf-1 murine leukemia viral oncogene homolog 1	Raf-1, c-Raf, CRAF
RB1	NM_000321.1	retinoblastoma 1	OSRC, RB
RBFOX3	NM_001082575	RNA binding protein, fox-1 homolog 3	FOX3; NEUN; FOX-3; HRNBP3
REL	NM_002908	V-rel reticuloendotheliosis viral oncogene homolog (avian)	C-Rel
RET	NM_020630.4	ret proto-oncogene	HSCR1, MEN2A, MTC1, MEN2B, PTC, CDHF12, RET51, CDHR16
ROS1	NM_002944	C-ros oncogene 1 , receptor tyrosine kinase	MCF3, ROS, c-ros-1
RRM1	NM_001033	ribonucleotide reductase M1	R1, RR1, RIR1
S100A1	NM_006271	S100 calcium binding protein A1	S100; S100A; S100-alpha
S100A4	NM_002961	S100 calcium binding protein A4	18A2, 42A, CAPL, FSP1, MTS1, P9KA, PEL98
S100A6	NM_014624	S100 calcium binding protein A6	2A9, 5B10, CABP, CACY, PRA
S100A8	NM_002964	S100 calcium binding protein A8	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG
S100P	NM_005980	S100 calcium binding protein P	MIG9
SAA1	NM_199161	serum amyloid A1	SAA; PIG4; SAA2; TP53I4
SALL4	NM_020436	Sal-like 4 (Drosophila)	DRRS, HSAL4, ZNF797, dJ1112F19.1
SATB2	NM_015265	SATB homeobox 2	GLSS
SCGB2A2	NM_002411	secretoglobin family 2A member 2	MGB1; UGB2
SCUBE2	NM_020974	signal peptide, CUB domain, EGF-like 2	CEGB1, CEGF1, CEGP1
SDC1	NM_001006946	syndecan 1	SDC; CD138; SYND1; syndecan
SDHB	NM_003000	succinate dehydrogenase complex iron sulfur subunit B	IP; SDH; CWS2; PGL4; SDH1; SDH2; SDHIP
SELL	NM_000655	selectin L	TQ1; LAM1; LEU8; LNHR; LSEL; CD62L; LYAM1; PLNHR; LECAM1
SELP	NM_003005	selectin P	CD62; GRMP; PSEL; CD62P; GMP140; LECAM3; PADGEM
SERPINA1	NM_001098668	surfactant protein A2	PSAP; PSPA; SP-A; SPA2; PSP-A; SFTP1; SP-2A; SPAII; COLEC5; SFTP2A2B
SERPINA9	NM_175739	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 9	GCET1, SERPINA11, SERPINA11b
SERPINB5	NM_002639	serpin peptidase inhibitor, clade B (ovalbumin), member 5	PI5, maspin
SFTPA1	NM_005411	surfactant protein A1	SPA; PSAP; PSPA; SP-A; SPA1; PSP-A; SFTP1; SP-A1; COLEC4; SFTP1A1B

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

SFTPA2	NM_001098668	surfactant protein A2	PSAP; PSPA; SP-A; SPA2; PSP-A; SFTP1; SP-2A; SPAII; COLEC5; SFTPA2B
SLAMF7	NM_021181	SLAM family member 7	19A; CS1; CD319; CRACC
SLC16A1	NM_003051	Solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	HHF7, MCT, MCT1
SLC29A1	NM_004955	Solute carrier family 29 (nucleoside transporters), member 1	ENT1
SLC2A3	NM_006931	Solute carrier family 2 (facilitated glucose transporter), member 3	GLUT3
SLC45A3	NM_033102	Solute carrier family 45, member 3	IPCA-2, IPCA-6, IPCA-8, IPCA6, PCANAP2, PCANAP6, PCANAP8, PRST
SMAD4	NM_005359.3	SMAD family member 4	MADH4, DPC4
SMARCB1	NM_003073.3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	SNF5L1, BAF47, Ini1, Snr1, hSNFS, Sfh1p, RDT
SMTN	NM_134270	smoothelin	None
SNCA	NM_000345	Synuclein, alpha (non A4 component of amyloid precursor)	NACP, PARK1, PARK4, PD1
SOX10	NM_006941	SRY (sex determining region Y)-box 10	DOM, PCWH, WS2E, WS4, WS4C
SOX11	NM_003108	SRY-box 11	MRD27
SOX2	NM_003106	SRY (sex determining region Y)-box 2	ANOP3, MCOPS3
SOX9	NM_000346.2	SRY (sex determining region Y)-box 9	CMD1, CMPD1, SRA1
SPI1	NM_003120	Spi-1 proto-oncogene	OF; PU.1; SFPI1; SPI-1; SPI-A
SPN	NM_001030288	sialophorin	LSN; CD43; GALGP; GPL115
SPTA1	NM_003126	spectrin alpha, erythrocytic 1	EL2; HPP; HS3; SPH3; SPTA
SSTR1	NM_001049	somatostatin receptor 1	SS1R; SS1-R; SRIF-2; SS-1-R
SSTR2	NM_001050	somatostatin receptor 2	None
ST6GALNAC6	NM_013443	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 6	SIAT7F; SIAT7-F; ST6GALNACVI
STAT1	NM_007315.2	signal transducer and activator of transcription 1, 91kDa	STAT91, ISGF-3
STAT2	NM_005419	Signal transducer and activator of transcription 2, 113kDa	ISGF-3, P113, STAT113
STAT3	NM_139276.2	signal transducer and activator of transcription 3 (acute-phase response factor)	APRF

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

STAT4	NM_003151.2	signal transducer and activator of transcription 4	SLEB11
STAT5A	NM_003152	Signal transducer and activator of transcription 5A	MGF, STAT5
STAT5B	NM_012448	Signal transducer and activator of transcription 5B	STAT5
STMN1	NM_203401.1	stathmin 1	LAP18, C1orf215, SMN, OP18, PR22, PP19, PP17, Lag, FLJ32206
SYP	NM_003179	synaptophysin	MRX96; MRXSYP
TACSTD2	NM_002353	tumor-associated calcium signal transducer 2	EGP1; GP50; M1S1; EGP-1; TROP2; GA7331; GA733-1
TAGLN	NM_003186	Transgelin	SM22, SMCC, TAGLN1, WS3-10
TBX21	NM_013351	T-box 21	T-PET, T-bet, TBET, TBLYM
TCL1A	NM_021966	T-cell leukemia/lymphoma 1A	TCL1
TFE3	NM_003226	Trefoil factor 3 (intestinal)	ITF, P1B, TFI
TFRC	NM_003234	Transferrin receptor (p90, CD71)	CD71, T9, TFR, TFR1, TR, TRFR, p90
TG	NM_003235	thyroglobulin	TGN; AITD3
THBD	NM_000361	thrombomodulin	TM; THRM; AHUS6; BDCA3; CD141; THPH12
THPO	NM_000460	Thrombopoietin	MGDF, MKCSF, ML, MPLLG, THCYT1, TPO
TIA1	NM_022037	TIA1 cytotoxic granule associated RNA binding protein	WDM; TIA-1
TIMP1	NM_003254	TIMP metalloproteinase inhibitor 1	CLGI, EPA, EPO, HCI, TIMP
TK1	NM_003258	thymidine kinase 1, soluble	TK2
TLE1	NM_005077	transducin like enhancer of split 1	ESG; ESG1; GRG1
TLE3	NM_005078	transducin like enhancer of split 3	ESG; ESG3; GRG3; HsT18976
TLR2	NM_003264.3	toll-like receptor 2	TIL4, CD282
TNFRSF8	NM_001243	Tumor necrosis factor receptor superfamily, member 8	CD30, D1S166E, Ki-1
TOP1	NM_003286	Topoisomerase (DNA) I	TOP1
TOP2A	NM_001067	Topoisomerase (DNA) II alpha 170kDa	TOP2, TP2A
TP53	NM_000546.2	tumor protein p53	p53, LFS1
TP63	NM_003722	Tumor protein p63	AIS, B(p51A), B(p51B), EEC3, KET, LMS, NBP, OFC8, RHS, SHFM4, TP53CP, TP53L, TP73L, p40, p51, p53CP, p63, p73H, p73L
TPO	NM_175722.1	thyroid peroxidase	TPX
TPSAB1	NM_003294	tryptase alpha/beta 1	TPS1; TPS2; TPSB1
TRAP1	NM_016292	TNF receptor associated protein 1	HSP75; HSP 75; HSP90L; TRAP-1

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.

HTG EdgeSeq PATH Assay Gene List

TSHB	NM_000549	thyroid stimulating hormone beta	TSH-B; TSH-BETA
TSHR	NM_001018036.2	thyroid stimulating hormone receptor	LGR3
TTR	NM_000371	transthyretin	CTS; CTS1; PALB; TBPA; HEL111; HsT2651
TUBB3	NM_006086	tubulin, beta 3 class III	CDCBM, FEOM3, TUBB4, CDCBM1, CFEOM3, beta-4, CFEOM3A
TYMP	NM_001953	Thymidine phosphorylase	ECGF, ECGF1, MEDPS1, MNGIE, MTDPS1, PDECGF, TP, hPD-ECGF
TYMS	NM_001071	Thymidylate synthetase	HST422, TMS, TS
TYR	NM_000372	tyrosinase	ATN; CMM8; OCA1; OCA1A; OCAIA; SHEP3
UCHL1	NM_004181	ubiquitin C-terminal hydrolase L1	NDGOA; PARK5; PGP95; PGP9.5; Uch-L1; HEL-117; PGP 9.5; HEL-S-53
UCK1	NM_031432	uridine-cytidine kinase 1	URK1
UCK2	NM_012474	uridine-cytidine kinase 2	UK; UMPK; TSA903
UMPS	NM_000373	uridine monophosphate synthetase	OPRT
UPK2	NM_006760	uroplakin 2	UP2; UPII
UPK3A	NM_006953	uroplakin 3A	UP3A; UPK3; UPIII; UPIIIA
UPP1	NM_003364	uridine phosphorylase	UP; UPP; UPASE; UDRPASE
UPP2	NM_173355	uridine phosphorylase 2	UP2; UPASE2; UDRPASE2
VCL	NM_003373	vinculin	MV; MVCL; CMD1W; CMH15; HEL114
VEGFA	NM_001025366.1	vascular endothelial growth factor A	VEGF, VEGF-A, VPF
VIL1	NM_007127	villin 1	VIL; D2S1471
VIM	NM_003380	Vimentin	CTRCT30, HEL113
VIP	NM_003381	vasoactive intestinal peptide	PHM27
VWF	NM_000552	von Willebrand factor	VWD; F8VWF
WT1	NM_000378.3	Wilms tumor 1	GUD, WAGR, WIT-2, AWT1
XBP1	NM_005080	X-box binding protein 1	TREB5, XBP-1, XBP2
XRCC1	NM_006297	X-ray repair complementing defective repair in Chinese hamster cells 1	RCC
ZAP70	NM_001079	zeta chain of T cell receptor associated protein kinase 70	SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70
H. pylori	None	Helicobacter pylori	None
ANT	None	Negative process control	None
POS1	None	Positive process control	None

For research use only. Not for use in diagnostic procedures.

In the U.S. and other applicable jurisdictions, HTG EdgeSeq is a trademark of HTG Molecular Diagnostics, Inc. Any other trademarks or trade names used herein are the intellectual property of their respective owners.