

These are genes that differentially regulated in immortalized schwann cells (derived from a rat, *rattus norvegicus*) expressing the human transgene PMP22. This is data found by RNAseq by comparing PMP22 transgene expressing cells with the same cells immortalized Schwann cells without the transgene. The pmp22 gene in the list below is the endogenous pmp22 gene

Symbol	Synonym(s)	Entrez Gene Name	Gene Symbol - rat (Entrez)	Expr Log Ratio	Expr False Discovery Rate (q)
ABCA1	ABC-1, ATP binding	ATP binding cassette subfamily A member 1	ENSRNOG00000018126	-0.51779247	0.011610082
ABCB4	ABC21, ATP binding	ATP binding cassette subfamily B member 4	ENSRNOG00000068001	-0.685278872	7.05335E-09
ABLIM1	2210411C18RIK, 2	actin binding LIM protein 1	ENSRNOG00000046333	1.253471131	1.63242E-05
AMFR	autocrine motility fac	autocrine motility factor receptor	ENSRNOG00000055446	-0.191499683	0.000178827
ANXA2	annexin A2, annexi	annexin A2	ENSRNOG00000010362	-0.230544542	5.87174E-05
ATF4	activating transcripti	activating transcription factor 4	ENSRNOG00000017801	-0.256885397	2.17399E-05
ATP2B4	ATP2B2, ATPase, (A	ATPase plasma membrane Ca2+ transporting 4	ENSRNOG00000003031	1.372821571	0.000193668
BDNF	ANON2, Brain deriv	brain derived neurotrophic factor	ENSRNOG00000047466	-1.482374879	6.29551E-06
CD3G	CD3 antigen, gamm	CD3 gamma subunit of T-cell receptor complex	ENSRNOG00000015945	-0.555044336	0.000733908
CD9	BTCC-1, CD9 ANTI	CD9 molecule	ENSRNOG00000019556	-0.867920181	2.53368E-08
CREB3	cAMP responsive el	cAMP responsive element binding protein 3	ENSRNOG00000016452	-0.28020978	5.15149E-06
CREB3L1	C16DELp11.2, cAM	cAMP responsive element binding protein 3 like 1	ENSRNOG00000005413	-0.489178781	9.86872E-05
CTNNB1	amaddillo, Beta-cat,	catenin beta 1	ENSRNOG000000054172	0.177085573	4.8526E-05
DDOST	AGE-R1, CDG1R, d	dolichyl-diphosphooligosaccharide-protein glycosyltransferase	ENSRNOG00000015079	-0.290824128	5.96201E-07
DLX1	Dll B, distal-less ho	distal-less homeobox 1	ENSRNOG00000001520	-0.272769787	0.000301488
DRP2	dystrophin related p	dystrophin related protein 2	ENSRNOG000000026704	-1.964231894	2.11811E-09
EBF1	B120IND2, COE1, e	EBF transcription factor 1	ENSRNOG00000028845	1.130691414	2.53368E-08
EDA	ECTD1, Ectodysplasi	ectodysplasin A	ENSRNOG000000032208	-0.345355542	0.000821096
EMP1	CL-20, ENP1MR, e	epithelial membrane protein 1	ENSRNOG00000008676	-0.306653505	2.34552E-06
EMP3	epithelial membran	epithelial membrane protein 3 (MAM blood group)	ENSRNOG000000021104	-0.25078639	0.000134288
ENO1	ENO1-IT1, ENO1L1	enolase 1	ENSRNOG00000017895	0.446618643	3.23275E-06
ERGIC3	2310015B14RIK, A	ERGIC and golgi 3	ENSRNOG000000031085	-0.282664262	8.41426E-06
ERLIN2	BC036333, C87251	ER lipid raft associated 2	ENSRNOG00000013763	0.26918417	9.5115E-06
ETV5	1110005E01RIK, 84	ETS variant transcription factor 5	ENSRNOG000000001785	0.816256925	1.22316E-05
FCGRT	alpha-chain, Fc frag	Fc gamma receptor and transporter	ENSRNOG000000020583	-0.660731012	4.67214E-07
FLOT1	Flotillin-1, Rareg, re	flotillin 1	ENSRNOG00000000826	-0.272488253	0.00060245
GLDC	b2b2679Clo, D0301	glycine decarboxylase	ENSRNOG00000011599	-6.246617897	2.10017E-12
HDAC5	HD5, Hdac4, histon	histone deacetylase 5	ENSRNOG000000020905	-0.505442352	5.28755E-05
HM13	1200006O09RIK, 4f	histocompatibility minor 13	ENSRNOG000000007738	-0.235379173	2.84746E-05
IGF1	C730016P09RIK, IC	insulin like growth factor 1	ENSRNOG000000004517	-0.785088178	0.00038809
LMAN1	2610020P13RIK, C	lectin, mannose binding 1	ENSRNOG000000024470	-0.214053637	1.7901E-05
MLEC	2410014A08RIK, E	malectin	ENSRNOG000000064601	-0.180834152	0.000534336
MPZ	CHM, CHN2, CMT1,	myelin protein zero	ENSRNOG000000003171	-0.507308466	3.11302E-09
MYC	bHLHe39, CMYC, C	MYC proto-oncogene, bHLH transcription factor	ENSRNOG00000004500	-0.9510632	0.000932828
NGF (family)		Nerve growth factor			
PALS1	3830420B02RIK, M	protein associated with LIN7 1, MAGUK p55 family member	ENSRNOG000000008788	0.376438438	2.8473E-07
PDGFB	c-sis, IBGC5, PDGF	platelet derived growth factor subunit B	ENSRNOG00000017197	0.546801962	2.48332E-06
PLTP	BPIFE, HDLCQ9, L	phospholipid transfer protein	ENSRNOG00000016488	-0.914223454	1.91613E-09
PMP22	CIDP, CMT1A, CMT	peripheral myelin protein 22	ENSRNOG000000003338	-0.388635216	7.953E-08
PRX	CMT4F, L-Periaxin,	periaxin	ENSRNOG00000018369	-0.901527325	9.64492E-10
QSOX1	1300003H02RIK, b2	quiescin sulphydryl oxidase 1	ENSRNOG000000003649	-2.258419192	1.25114E-11
SAR1A	1600019H17RIK, m	secretion associated Ras related GTPase 1A	ENSRNOG00000000557	-0.286181891	5.89893E-05
SERPINE1	beta MIGRATING P	serpin family E member 1	ENSRNOG000000001414	-0.863149712	6.24071E-07
SMIM3	2010002N04RIK, C	small integral membrane protein 3	ENSRNOG00000019536	-0.283940479	0.000378117
SPTAN1	2610027H02RIK, (a	spectrin alpha, non-erythrocytic 1	ENSRNOG00000015396	-0.30187511	0.00049344
STOM	BND7, EPB7, EPB7	stomatin	ENSRNOG00000019147	-0.47722083	3.65653E-06
SUMO3	2810014B19RIK, A	small ubiquitin like modifier 3	ENSRNOG000000064656	-2.556884569	2.00577E-10
SYVN1	1200010C09RIK, D	synoviolin 1	ENSRNOG000000020950	-0.267692828	6.24459E-05
TJP1	Gm1693, tight junct	tight junction protein 1	ENSRNOG00000011077	-0.276625116	2.03097E-06
TJP2	C9DUPq21.11, DFN	tight junction protein 2	ENSRNOG00000015030	-0.317282868	4.75674E-06
TLR3	CD283, IIAE2, IMD	toll like receptor 3	ENSRNOG000000021726	0.933168521	1.47209E-06
TMED10	1110014C03RIK, p2	transmembrane p24 trafficking protein 10	ENSRNOG000000007901	0.2414607	1.48977E-05
TMED4	1110014L17RIK, E	transmembrane p24 trafficking protein 4	ENSRNOG000000005016	-0.365267145	1.90376E-05
TMX1	2810425A04RIK, P	thioredoxin related transmembrane protein 1	ENSRNOG000000057934	0.320381366	2.98769E-05
TP53	bb1, BCC7, bfy, bhy	tumor protein p53	ENSRNOG00000010756	0.16925927	0.000224124