New nomenclature Adhesion-GPCRs — April 22, 2015

Subfamily	Gene name	Former gene name	Protein name (abbreviated)	Protein name (full out)	Comments (eg, restriction to species)	Reference (PMID)
I_ADGRL Latrophilin-like	***ADGRL1***	*LPHN1*	**Latrophilin 1**	Latrophilin 1		Davletov, J Biol Chem (8798521)
			CIRL1	Calcium-independent receptor of α-latrotoxin 1		Krasnoperov, Biochem Biophys Res Commun 1996 (8886023)
			CL1	CIRL/latrophilin 1		Sugita, J Biol Chem 1998 (9830014)
			LEC2	Lectomedin-2		Hayflick, J Recept Signal Transduct Res 2000 (10994649)
			CIRL (CG8639)	Calcium-independent receptor of α-latrotoxin	D. melanogaster	Lloyd, Neuron 2000 (10798391)
			LAT-1 (B0457.1)	Latrophilin-1	C. elegans	Mastwal and Hedgecock, International C. elegans Meeting 2001
	ADGRL2	*LPHN2*	**Latrophilin 2**	Latrophilin 2		Matsushita, FEBS Lett 1999 (10025961)
			CIRL-2	Calcium-independent receptor of α-latrotoxin 2		Ichtchenko, J Biol Chem 1999 (10026162)
			CL2	CIRL/latrophilin 2		Sugita, J Biol Chem 1998 (9830014)
			LPHH1	Latrophilin homologue in humans 1	Human	White, Oncogene 1998 (10030676)
			LEC1	Lectomedin-1		Hayflick, J Recept Signal Transduct Res 2000 (10994649)
			LAT-2 (B0286.2)	Latrophilin-2	C. elegans	Mastwal and Hedgecock, International C. elegans Meeting 2001
	ADGRL3	*LPHN3*	**Latrophilin 3**	Latrophilin 3		Matsushita, FEBS Lett 1999, PMID 10025961
			CIRL-3	Calcium-independent receptor of α-latrotoxin 3		Ichtchenko, J Biol Chem 1999 (10026162)
			CL3	CIRL/latrophilin 3		Sugita, J Biol Chem 1998 (9830014)
			LEC3	Lectomedin-3		Hayflick, J Recept Signal Transduct Res 2000 (10994649)
	ADGRL4	*ELTD1*	ETL	EGF-TM7-latrophilin-related protein	Note that *ETL-1* is the enhancer trap locus-1 gene!	Nechiporuk, J Biol Chem 2001 (11050079)
			ELTD1	EGF, latrophilin and seven trans-membrane domain-containing protein 1		
II_ADGRE EGF-TM7	***ADGRE1***	*EMR1*	F4/80		Mouse	Austyn, Eur J Immunol 1981 (7308288)
			EMR1	EGF-like molecule containing mucin-like hormone receptor 1		Baud, Genomics 1995 (7601460)
	ADGRE2	*EMR2*	**EMR2**	EGF-like molecule containing mucin-like hormone receptor 2	Absent in murids	Lin, Genomics 2000 (10903844)
			CD312	Cluster of differentiation 312		Leukocyte Typing VIII 2004 (www.hcdm.org)
	ADGRE3	*EMR3*	**EMR3**	EGF-like molecule containing mucin-like hormone	Absent in murids	Stacey, J Biol Chem 2001 (11279179)

				receptor 3		
	ADGRE4	*EMR4*	FIRE	F4/80-like receptor	Mouse	Caminschi, J Immunol 2001 (1564768)
			EMR4	EGF-like molecule containing mucin-like hormone receptor 4	Pseudogen in humans	Stacey, J Biol Chem 2002 (12023293)
			GPR127	G protein-coupled receptor 127		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
	ADGRE5	*CD97*	BL-Ac(F2)		Human	Eichler, Scand J Immunol 1994 (8290889)
			CD97	Cluster of differentiation 97		Leukocyte Typing V 1994 (www.hcdm.org)
III_ADGRA	***ADGRA1***	*GPR123*	**GPR123**	G protein-coupled receptor 123		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
	ADGRA2	*GPR124*	TEM5	Tumor endothelial marker 5		Carson-Walter, Cancer Res 2001 (11559528)
			GPR124	G protein-coupled receptor 124		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
	ADGRA3	*GPR125*	**GPR125**	G protein-coupled receptor 125		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
IV_ADGRC CELSR-like	***ADGRC1***	***CELSR1***	**CELSR1**	Cadherin EGF LAG seven-pass G-type receptor 1		Hadjantonakis, Genomics 1997 (9339365)
	ADGRC2	***CELSR2***	**CELSR2**	Cadherin EGF LAG seven-pass G-type receptor 2		Formstone, Mamm Genome 2000 (10790539)
			Fmi	Flamingo	D. melanogaster, mouse	Usui, Cell 1999 (10490098); Sugimura, Cell 2012 (22817897)
			Stan	Starry night	D. melanogaster	Chae, Development 1999 (10556066)
			MEGF3	Multiple epidermal growth factor-like domains 3	Rat	Nakayama, Genomics 1998 (9693030)
	ADGRC3	***CELSR3***	**CELSR3**	Cadherin EGF LAG seven-pass G-type receptor 3		Formstone, Mamm Genome 2000 (10790539)
			MEGF2	Multiple epidermal growth factor-like domains 2	Rat	Nakayama, Genomics 1998 (9693030)
			Fmi1	Flamingo1	Mouse	Usui, Cell 1999 (10490098)
			EGFL1	Epidermal growth factor-like 1	Human	Vincent, DNA Res 2000 (10907856)
V_ADGRD	***ADGRD1***	*GPR133*	**GPR133**	G protein-coupled receptor 133		Bjarnadóttir, Genomics 2004 (15203201)
	ADGRD2	*GPR144*	**GPR144**	G protein-coupled receptor 144		Bjarnadóttir, Genomics 2004 (15203201)
VI_ADGRF	***ADGRF1***	*GPR110*	**GPR110**	G protein-coupled receptor 110		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRF2	*GPR111*	**GPR111**	G protein-coupled receptor 111		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRF3	*GPR113*	**GPR113**	G protein-coupled receptor 113		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRF4	*GPR115*	**GPR115**	G protein-coupled receptor 115		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRF5	*GPR116*	Ig-Hepta			Abe, J Biol Chem 1999 (10391944)
			GPR116	G protein-coupled receptor 116		Frederiksson, FEBS Lett 2002 (12435584)
VII_ADGRB BAI-like	***ADGRB1***	*BAI1*	**BAI1**	Brain-specific angiogenesis inhibitor 1		Nishimori, Oncogene 1997 (9393972)
	ADGRB2	*BAI2*	**BAI2**	Brain-specific angiogenesis inhibitor 2		Shiratsuchi, Cytogenet Cell Genet 1997 (9533023)
	ADGRB3	*BAI3*	**BAI3**	Brain-specific angiogenesis		Shiratsuchi, Cytogenet Cell Genet 1997

				inhibitor 3		(9533023)
VIII_ADGRG	***ADGRG1***	*GPR56*	**GPR56**	G protein-coupled receptor 56		Liu, Genomics 1999 (10049584)
			TM7XN1			Zendman, FEBS Lett 1999 (10100861)
	ADGRG2	*GPR64*	**GPR64**	G protein-coupled receptor 64		Obermann, Mol Reprod Dev (12420295)
			HE6	Human epididymal 6		Osterhoff, DNA Cell Biol 1997 (9150425)
	ADGRG3	*GPR97*	**GPR97**	G protein-coupled receptor 97		Frederiksson, FEBS Lett 2002 (12435584)
			Pb99			Schleckman, Mol Cell Biol 2000 (10825203)
	ADGRG4	*GPR112*	**GPR112**	G protein-coupled receptor 112		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRG5	*GPR114*	**GPR114**	G protein-coupled receptor 114		Frederiksson, FEBS Lett 2002 (12435584)
	ADGRG6	*GPR126*	**GPR126**	G protein-coupled receptor 126		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
			VIGR	Vascular inducible GPCR	Human	Stehlik, FEBS Lett 2004 (15225624)
			DREG	Developmentally regulated G-protein-coupled receptor		Moriguchi, Genes Cells 2004 (15189448)
	ADGRG7	*GPR128*	**GPR128**	G protein-coupled receptor 128		Frederiksson, Biochem Biophys Res Commun 2003 (12565841)
IX_ADGRV	***ADGRV1***	*GPR98*	**VLGR1**	Very large G protein- coupled receptor 1	Several splice variants, eg VLGR1a, b	Nikkila, Mol Endocrinol 2000 (10976914)
			GPR98	G protein-coupled receptor 98		Jacobson, Hum Mol Genet 2008 (18463160)
			MASS1	Monogenic audiogenic seizure susceptibility 1	Splice variants of VLGR1 (extra-cellular part) mapping to MASS1 disease locus	Skradski, Genomics 1998 (9598305)
			USH2C	Usher syndrome type-2C/VLGR1b	Usher syndrome II locus on 5q14-q21	Pieke-Dahl, J Med Genet 2000 (10745043)
			FEB4	Febrile seizures gene disease locus 4	Febrile seizure locus on 5q14-q15	Nakayama, Hum Mol Genet 2000 (10587582)

Official gene names are provided in **red**. These names have been accepted by HGNC in February 2015, based on a new nomenclature co-developed the AGC and NC-IUPHAR. Protein names provided in red are currently used, sometimes in parallel; in April 2013, the AGC recommended the usage of the names shown here in **red**. For details see Hamann et al., Pharmacol Rev. 2015 Apr;67(2):338-67.

PS: The official gene names for subfamily IV_ADGRC are still under discussion