

Discoverx PathHunter  $\beta$ -Arrestin Cell Products

9/24/2009

Family	Common Name	GPCR Gene	PathHunter Cell line	PathHunter eXpress	EasyScreen $\beta$ -Arrestin	cAMP Hunter cell line	cAMP Hunter eXpress	Profiling and Screening Target
VIP & PACAP	PAC1	ADCYAP1R1	x	x	x	x	x	x
Adenosine	A1	ADORA1	x	x		x		x
Adenosine	A2B	ADORA2B	x, m	m	m	x	x	x
Adenosine	A3	ADORA3	x			x		x
Adrenoreceptor	a1B	ADRA1B	x	x				x
Adrenoreceptor	a2A	ADRA2A	x	x	x			x
Adrenoreceptor	a2C	ADRA2C	x	x	x	x	x	x
Adrenoreceptor	B1AR	ADRB1	x	x	x	x	x	x
Adrenoreceptor	B2AR	ADRB2	x	x	x		x	x
Adrenoreceptor	B3AR	ADRB3				x		x
Angiotensin	AT1	AGTR1	x	x	x			x
Apelin	APJ	AGTRL1	x	x	x			x
Vasopressin	V1B	AVPR1B	x	x	x			x
Vasopressin	V2	AVPR2	x					x
Bradykinin	B2	BDKRB2	x	x				x
Anaphylotoxin	C5A	C5AR1	x			x	x	x
Calcitonin	AMY1	CALCR + RAMP1	x	x	x			x
Calcitonin	AMY2	CALCR + RAMP2	x	x				x
Calcitonin	AMY3	CALCR + RAMP3	x	x				x
Calcitonin	CGRP1	CALCRL+ RAMP1	x	x	x			x
Calcitonin	AM1	CALCRL + RAMP2	x	x	x			x
Calcitonin	AM2	CALCRL+ RAMP3	x	x	x			x
Cholecystokinin	CCK1	CCKAR	x	x	x			x
Cholecystokinin	CCK2	CCKBR	x	x	x			x
Chemokine	CCR1	CCR1	x			x		x
Chemokine	CCR2	CCR2	x	x, m	x			x
Chemokine	CCR3	CCR3	x, m	x				
Chemokine	CCR4	CCR4	x, m	x, m				x
Chemokine	CCR5	CCR5	x, m	x, m	x, m	x		x

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Chemokine	CCR6	CCR6	x	x		x	x	x
Chemokine	CCR7	CCR7	x	x, m		x	x	x
Chemokine	CCR8	CCR8	x, m	x	x			x
Chemokine	CCR9	CCR9	x	x	x			x
Chemokine	CCR10	CCR10	x	x		x		x
Acetylcholine	M1	CHRM1	x	x				x
Acetylcholine	M2	CHRM2	x	x	x	x	x	x
Acetylcholine	M3	CHRM3	x	x	x			x
Acetylcholine	M4	CHRM4	x	x	x			x
Acetylcholine	M5	CHRM5	x	x	x			x
Chemokine	Chem23	CMKLR1	x	x, m	x, m	x	x	x
Chemokine	CXCR7	CMKOR1	x	x, m	x			x
Cannabinoid	CB1	CNR1	x, m	x, m	x, m	x		x
Cannabinoid	CB2	CNR2	x, m	m	m	x	x	x
Corticotropin	CRF1	CRHR1	x, m	x, m	x, m	x	x	x
Corticotropin	CRF2	CRHR2	x	x	x	x	x	x
Prostanoid	DP2	CRTH2	x	x				x
Chemokine	CX3CR1	CX3CR1	x	x	x			x
Chemokine	CXCR3	CXCR3	x, m			x	x	x
Chemokine	CXCR4	CXCR4	x			x	x	x
Chemokine	CXCR5	CXCR5	x, m	x, m	x	x	x	x
Chemokine	CXCR6	CXCR6	x, m	x, m				x
Dopamine	D1	DRD1	x	x	x	x	x	x
Dopamine	D2	DRD2				x	x	x
Dopamine	D5	DRD5	x	x	x	x	x	x
Lysophospholipid	S1P1	EDG1	x, m	x, m	x			x
Lysophospholipid	S1P3	EDG3	x	x				x
Lysophospholipid	LPA2	EDG4		x				
Lysophospholipid	S1P2	EDG5	x	x				x

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Lysophospholipid	S1P4	EDG6	x (pool)					
Endothelin	ETA	EDNRA	x	x	x			x
Endothelin	ETB	EDNRB	x	x	x		x	x
Protease activated	PAR1	F2R	x	x	x			x
Protease activated	PAR2	F2RL1	x	x	x			x
Protease activated	PAR4	F2RL3	x	x	x			x
Formylpeptide	FPR	FPR1	x	x				x
Formylpeptide	ALX	FPRL1	x	x	x	x	x	x
Glycoprotein Hormone Receptor	FSH	FSHR	x	x				x
Galanin	GAL1	GALR1	x	x	x	x	x	x
Galanin	GAL2	GALR2	x			x		x
Glucagon	Glucagon	GCGR	x	x	x	x	x	x
Glucagon	GHRH	GHRHR				x	x	x
Ghrelin	GRLN	GHSR1a	x	x, m	m			x
Glucagon	GIP	GIPR	x	x	x			x
Glucagon	GLP-1	GLP1R	x, m	x, m	x, m	X	x	x
Glucagon	GLP-2	GLP2R	x	x	x	x	x	x
Bile Acid Receptors	GPR131	GPBAR1				x	x	x
Class A Orphan	GPR1	GPR1	x	x				x
Class A Orphan	GPR35	GPR35	x	x				x
Class A Orphan	GPR92	GPR92	x	x				
Nicotinic Acid	HM74A	GPR109A	x					x
Class A Orphan	GPR119	GPR119	x					
Class A Orphan	GPR120	GPR120	x					x
Glutamate	mGlu4	GRM4					x	
Glutamate	mGlu6	GRM6				x	x	x
Bombesin	BB2	GRPR	x	x	x			x
Orexin	OX1	HCRTR1	x	x	x			x
Orexin	OX2	HCRTR2	x	x	x			x

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Histamine	H1	HRH1	x	x				x
Histamine	H2	HRH2	x	x	x	x	x	x
Histamine	H3	HRH3	x	x	x	x	x	x
Histamine	H4	HRH4	x					
Serotonin	5HT6	HT6						
Serotonin	5HT1E	HTR1E				x		x
Serotonin	5HT2C	HTR2C	x	x				x
Chemokine	CXCR1	IL8RA (CXCR1)	x	x	x	x	x	x
Chemokine	CXCR2	IL8RB (CXCR2)	x	x, m		x	x	x
KISS1-derived Peptide Receptor	GPR54	KISS1	x	x				x
Luteneizing Hormone	LH	LHCGR				x	x	x
Leukotriene	BLT1	LTB4R	x	x	x	x	x	x
Melanocortin	MC1	MC1R	x	x		x		x
Melanocortin	MC3	MC3R	x	x	x	x		x
Melanocortin	MC4	MC4R	x	x		x	x	x
Melanocortin	MC5	MC5R	x	x		x		x
Melanin-Concentrating Hormone Receptor	MCH1	MCHR1	x, m			x	x	x
Motilin	motilin	MLNR	x	x	x			x
Class A Orphan	MRGX2	MRGPRX2	x	x	x			x
Melatonin	MT1	MTNR1A	x	x	x	x	x	x
Melatonin	MT2	MTNR1B				x	x	x
Neuromedin U	NMU1	NMU1R	x	x	x			x
Neuropeptide B & W	GPR7	NPBWR1				x		x
Neuropeptide B & W	GPR8	NPBWR2				x		x
Neuropeptide F	GPR147	NPFFR1				x	x	x
Neuropeptide Y	Y1	NPY1R	x	x	x			x
Neuropeptide Y	Y2	NPY2R	x	x	x	x	x	x
Neurotensin	NTS1	NTSR1	x	x				x
Opioid	$\delta$	OPRD1	x	x	x	x	x	x

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Opioid	k	OPRK1	x, m	m		x	x	x
Opioid	NOP	OPRL1	x	x			x	x
Opioid	m	OPRM1	x, m, r	x, m, r	x			x
Eicosanoid receptor	GPR170	OXER1				x	x	x
Vasopressin	OT	OXTR	x	x				x
P2Y	P2Y4	P2RY4	x	x				x
P2Y	P2Y6	P2RY6	x					
P2Y	P2Y11	P2RY11	x					x
P2Y	P2Y12	P2RY12	x	x				x
Neuropeptide Y	Y4	PPYR1 (NPY4)	x	x	x	x	x	x
Prolactin Releasing Peptide Receptor	PRRP	PRLHR	x	x				x
Prokineticin	PKR1/GPR73	PROKR1	x	x, r	x	x	x	x
Prokineticin	PKR2	PROKR2	x, r	x, r	x			x
Platelet-activating factor	PAF	PTAFR	x	x		x		x
Prostanoid	DP1	PTGDR				x	x	x
Prostanoid	EP2	PTGER2	x					x
Prostanoid	EP4	PTGER4	x	x	x			x
Prostanoid	IP1	PTGIR	x			x	x	x
PTH receptor	PTH1	PTHR1	x	x	x			x
PTH receptor	PTH2	PTHR2	x	x	x	x	x	x
Relaxin	SALPR	RXFP3				x	x	x
Secretin	SEC	SCTR	x	x	x	x	x	x
Somatostatin	SST1	SSTR1	x	x				x
Somatostatin	SST2	SSTR2	x	x	x	x	x	x
Somatostatin	SST3	SSTR3	x	x		x		x
Somatostatin	SST4	SSTR4	x	x		x	x	x
Somatostatin	SST5	SSTR5	x	x				x
Tachykinin	NK1	TACR1	x	x				x
Tachykinin	NK2	TACR2	x	x				x

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Tachykinin	NK3	TACR3	x	x	x	x	x	x
Prostanoid	TP	TBXA2R	x	x	x			x
TRH	TRH	TRHR	x	x	x			x
Urotensin	UT	UTR2	x, m					x
VIP & PACAP	VPAC1	VIPR1	x	x	x	x	x	x
VIP & PACAP	VPAC2	VIPR2	x	x	x	x	x	x
Chemokine	XC1	XCR1				x		x