

Axxam: Assays 2011

New Panel of Stable Cell Lines for Your Drug Discovery Programs

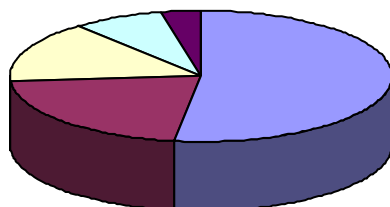
- Axxam's Cell Based Assay Portfolio includes over **140 targets**
- Assays are validated for HTS applications
- Different read-outs are available



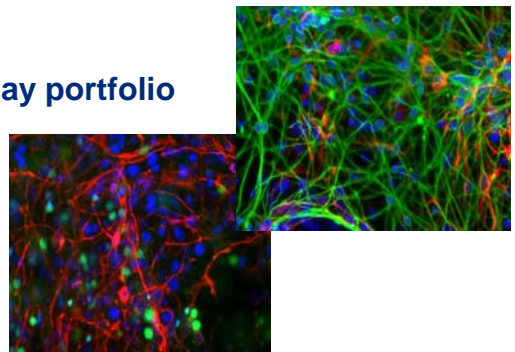
- Axxam cell biologists offer their expertise for development of HTS grade cell-based assays

- The target gene is stably expressed in the most suited recipient cell line and our experience range from expression of easy GPCR target up to complex multi subunit ion channels.
- Detection systems include both fluorescence and luminescence with assays optimized for standard 96 and 384 -MTP formats.
- If your desired assay is not included in this list, please contact us as we are continuously adding new assays to this list.

Target distribution within Axxam's cell based assay portfolio



- GPCR
- NHRs
- Transporters
- Ion Channels
- Cytokines



Contact us for receiving further information

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Target Class: GPCRs

New entries 2011

Sub-family	Symbol	Other Aliases/Designations	GeneID
Adenosine receptors	ADORA1	Adenosine A1 receptor	134
	Adora1	mouse Adenosine A1 receptor	11539
	Adora1	rat Adenosine A1 receptor	29290
	ADORA2A	Adenosine A2a receptor	135
	Adora2a	mouse Adenosine A2a receptor	11540
	Adora2a	rat Adenosine A2a receptor	25369
	ADORA2B	Adenosine A2b receptor	136
	Adora2b	mouse Adenosine A2b receptor	11541
	Adora2b	rat Adenosine A2b receptor	29316
	ADORA3	Adenosine A3 receptor	140
	Adora3	mouse Adenosine A3 receptor	11542
Adrenergic Receptors	ADRA2C	Adrenergic, alpha-2C receptor	152
Bradykinin receptors	BDKRB1	Bradykinin receptor B1	623
	Bdkrb1	rat Bradykinin receptor 1	81509
	BDKRB2	Bradykinin receptor B2	624
Complement component receptor	C5aR1	Complement component 5a receptor 1	728
Cannabinoid receptors	CNR1	Cannabinoid receptor 1	1268
	CNR2	Cannabinoid receptor 2	1269
Chemokine (CXC) receptors	CCRL1	Chemokine (C-C motif) receptor-like 1	51554
	CCR2	Chemokine (C-C motif) receptor 2	1231
	CCR5	Chemokine (C-C motif) receptor 5	1234
	CX3CR1	Chemokine (C-X3-C motif) receptor 1	1524
	CXCR1	Interleukin 8 receptor, alpha	3577
	CXCR2	Interleukin 8 receptor, beta	3579
	CXCR3	CXC chemokine receptor 3	2833

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Target Class: GPCRs

Sub-family	Symbol	Other Aliases/Designations	GeneID
Dopamine receptors	DRD1	Dopamine receptor D1	1812
	DRD2	Dopamine receptor D2	1813
	DRD3	Dopamine receptor D3	1814
Endothelin receptors	EDNRA	Endothelin receptor type A, ET-A	1909
	EDNRB	Endothelin receptor type B, ETB	1910
Formyl peptide receptor	FPR2	FPRL1, formyl peptide receptor-like 1	2358
Fatty acid receptors	GPR120	G protein-coupled receptor 120-Linolenic acid receptor	338557
	FFAR1	Free fatty acid receptor 1,GPR40	2864
GABA receptor	GABA-B	Gamma-aminobutyric acid (GABA) B receptor1 and 2	2550, 9568
Galanin receptors	GALR1	Galanin receptor 1	2587
	GALR2	Galanin receptor 2	8811
Glucagon receptors	GLP1R	Glucagon-like peptide 1 receptor	2740
	GCGR	Glucagon receptor	2642
Glutamate receptor	GRM1	Glutamate receptor metabotropic 1, MGLUR1A	2911
Histamine receptor	HRH3	Histamine receptor H3	11255
Kynurenic acid receptor	GPR35	G protein-coupled receptor 35	2859
Leukotriene receptors	CYSLTR1	Cysteinyl leukotriene receptor 1, LTD4	10800
	CYSLTR2	Cysteinyl leukotriene receptor 2	57105
	LTB4R	Leukotriene B4 receptor	1241
Mas Related	MRGPRX1	MAS-related GPR, member X1	259249
Muscarinic receptor	CHRM2	Cholinergic receptor, muscarinic 2	1129
Neurokinin receptor	TACR1	Tachykinin receptor 1	6869
	TACR2	Tachykinin receptor 2	6865
Neuropeptides receptor	NPFF	Neuropeptide FF-amide peptide precursor	8620

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Sub-family	Symbol	Other Aliases/Designations	GeneID
Nicotinic acid receptors	NIACR2	HM74, G protein-coupled receptor 109B	8843
	NIACR1	HM74A, G protein-coupled receptor 109A	338442
Platelet-Activating factor	PTAFR	Platelet-activating factor receptor	5724
Prokineticin receptors	PROKR1 (GPR73)	Prokineticin receptor 1	10887
	PROKR2 (GPR73L1)	Prokineticin receptor 2	128674
Prostanoid receptors	GPR44	CRTH2, DP2, Prostaglandin D2 receptor	11251
	PTGDR	Prostaglandin D2 receptor (DP)	5729
	PTGIR	Prostaglandin I2, prostacyclin receptor, IP	5739
	PTGER1	Prostaglandin E receptor 1 (subtype EP1), 42kDa, EP1	5731
	rEP1	rat Prostaglandin E receptor 1 (subtype EP1)	25637
	PTGER2	Prostaglandin E receptor 2 (subtype EP2), 53kDa, EP2	5732
	PTGER3	Prostaglandin E receptor 3 (subtype EP3), EP3	5733
	PTGER4	Prostaglandin E receptor 4 (subtype EP4), EP4	5734
Protease activated receptors	F2RL1	PAR2, Coagulation factor II (thrombin) receptor-like 1	2150
	F2RL3	PAR4, Coagulation factor II (thrombin) receptor-like 3	9002
Purinergic receptors	P2RY11	Purinergic receptor P2Y, G-protein coupled, 11	5032
	P2RY1	Purinergic receptor P2Y, G-protein coupled, 1	5028
	P2RY2	Purinergic receptor P2Y, G-protein coupled, 2	5029
	P2RY6	Purinergic receptor P2Y, G-protein coupled, 6	5031
	P2RY11	Purinergic receptor P2Y, G-protein coupled, 11	5032
	P2RY12	Purinergic receptor P2Y, G-protein coupled, 12	64805
	P2RY13	Purinergic receptor P2Y, G-protein coupled, 13	53829
Succinate receptor	SUCNR1	GPR91, Succinate receptor 1	56670
Urotensin receptors	UTS2R	Urotensin 2 receptor, GPR14,	2837
Vasopressin receptors	AVPR1A	V1aR, Arginine vasopressin receptor 1A	552
	AVPR2	V2R, Arginine vasopressin receptor 2	554

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Target Class: Ion Channels

Ligand gated

Sub-family	Symbol	Other Aliases/Designations	GeneID
Ligand gated K+ channels	SUR1/Kir 6.2 ABCC8 KCNJ11	ATP-binding cassette, sub-family C (CFTR/MRP), member 8 potassium inwardly-rectifying channel, subfamily J, member 11	6833 - 3767
	SUR2A/Kir 6.2 ABCC9 KCNJ11	ATP-binding cassette, sub-family C (CFTR/MRP), member 9 potassium inwardly-rectifying channel, subfamily J, member 11	10060 - 3767
Ligand gated Ca2+ channels	P2RX1	Purinergic receptor P2X, ligand-gated ion channel, 1	5023
	P2RX2	Purinergic receptor P2X, ligand-gated ion channel, 2	22953
	P2RX2/P2RX3	Heteromeric P2X2/P2X3 receptor	22953 - 5024
	P2RX3	Purinergic receptor P2X, ligand-gated ion channel, 3	5024
	P2RX4	Purinergic receptor P2X, ligand-gated ion channel, 4	5025
	P2RX7	Purinergic receptor P2X, ligand-gated ion channel, 7	5027
Ionotropic Glutamate channel	Grin1/Grin2b	rat glutamate receptor, ionotropic, N-methyl D-aspartate 1/2b	24408 - 24410
Chloride channels	GABRA1- GABRB1- GABRG2	Gamma-aminobutyric acid (GABA) A receptor, alpha 1, beta 1, gamma 2	2554-2560- 2566
	GLRA1	Glycine receptor, alpha 1	2741

TRP channels

Sub-family	Symbol	Other Aliases/Designations	GeneID
Transient receptor potential channels	TRPA1	ANKTM1, Transient receptor potential cation channel subfamily A member 1	8989
	TRPC3	Transient receptor potential cation channel, subfamily C, member 3	7222
	TRPC6	Transient receptor potential cation channel, subfamily C, member 6	7225
	TRPC7	Transient receptor potential cation channel , subfamily C, member 7	57113
	TRPM2	Transient receptor potential cation channel, subfamily M, member 2	7226
	TRPM5	Transient receptor potential cation channel, subfamily M, member 5	29850
	TRPM8	Transient receptor potential cation channel, subfamily M, member 8	79054
	TRPV1	Transient receptor potential cation channel, subfamily V, member 1	7442

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Target Class: Ion Channels

Voltage gated

Sub-family	Symbol	Other Aliases/Designations	GeneID
Voltage gated Na ⁺ channels	SCN9A (Nav1.7)	Sodium channel, voltage-gated, type IX, alpha subunit	6335
Voltage gated K ⁺ channels	KCNH5 (EAG2)	Ether a go-go-related potassium channel 2l	27133
	KCNA3 (Kv1.3)	Potassium voltage-gated channel, shaker-related subfamily, member 3	3738
	KCNA5 (Kv1.5)	Potassium voltage-gated channel, shaker-related subfamily, member 5	3741
	KCNB1 (Kv2.1)	Potassium voltage-gated channel, Shab-related subfamily, member 1	3745
Voltage gated Ca ²⁺ channels	CACNA1C (Cav 1.2)	Calcium channel, voltage-dependent, L type, alpha 1C subunit	775
	CACNA1B (Cav 2.2)**	Calcium channel, voltage-dependent, N type, alpha 1B subunit	774

Sub-family	Symbol	Other Aliases/Designations	GeneID
Store-operated Ca ²⁺ channels	CRAC	ORAI1(calcium release-activated calcium modulator 1) + STIM-1 (stromal interaction molecule 1)	84876 - 6786
Calcium Activated Chloride Channel	CLCA1	calcium-activated chloride channel protein 1	1179
Na ⁺ channels	ENac **	Sodium channel, nonvoltage-gated 1 alpha ,gamma, delta	6337 -6338 - 6340
Ca ²⁺ activated K ⁺ channels	KCNN3 (SK3)	Potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3	3782

** endogenous receptors

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Target Class: Transporters

Sub-family	Symbol	Other Aliases/Designations	Gene ID
Neurotransmitter transporters	SLC6A12	BGT-1, gamma-aminobutyric acid transporter	6539
	SLC6A3	DAT, Dopamine transporter	6531
	SLC6A1	GAT1, GABA transporter 1	6529
	SLC6A11	GAT3, GABA transporter 3	6538
	SLC6A9	GLYT1, Glycin transporter 1	6536
	SLC6A5	GLYT2, Glycin transporter 2	9152
	SLC6A15	Proline transporter, Solute carrier family 6, member 15	55117
Anionic transporters	SLC01B3	OATP8, Solute carrier organic anion transporter family, member 1B3	28234

Target Class: Exchangers

Sub-family	Symbol	Other Aliases/Designations	GeneID
Na+/K+/Ca2+ exchangers	SLC24A3 (NCKX3)	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	57419
	SLC24A2 (NCKX2)	Solute carrier family 24 (sodium/potassium/calcium exchanger), member 2	25769
Na+/Ca2+ exchangers	SLC8A1 (NCX1)	Solute carrier family 8 (sodium/calcium exchanger), member 1	6546

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Target Class: Nuclear Hormone Receptors

Class	Symbol	Other Aliases/Designations	GeneID
Nuclear Hormone Receptors	NR5A2	CPF, CYP7A promoter binding factor	2494
	ESR1	ER-alpha, Estrogen receptor 1	2099
	ESR2	ER-beta, Estrogen receptor 2	2100
	NR1H4	FXR, Nuclear receptor subfamily 1, group H, member 4	9971
	NR3C1	GR, Glucocorticoid receptor, nuclear receptor subfamily 3, group C, member 1	2908
	NR1H3	LXR-alpha, Nuclear receptor subfamily 1, group H, member 3	10062
	NR1H2	LXR-beta, Nuclear receptor subfamily 1, group H, member 2	7376
	NR3C2	MR, mineralcorticoid receptor, Nuclear receptor subfamily 3, group C, member 2	4306
	PPARA	PPAR-alpha, Peroxisome proliferator-activated receptor alpha	5465
	PPARD	PPAR-delta, Peroxisome proliferator-activated receptor delta	5467
	PPARG	PPAR-gamma, Peroxisome proliferator-activated receptor gamma	5468
	PGR	Progesteron receptor	5241
	NR1I2	PXR, Pregnane X receptor	8856
	RARA	Retinoic acid receptor, alpha	5914
	RARB	Retinoic acid receptor, beta	5915
	RARG	Retinoic acid receptor, gamma	5916
	RORA	RAR-related orphan receptor A	6095
	RXRA	Retinoid X receptor, alpha	6256
	NR5A1	SF-1, Nuclear receptor subfamily 5, group A, member 1	2516
	THRA	Thyroid hormone receptor alpha	7067
THRB	Thyroid hormon receptor beta	7068	
VDR	Vitamin D (1,25- dihydroxyvitamin D3) receptor	7421	

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