

Assays available for use in testing services and research agreements provided by Euroscreen

New assay

WE PERFORM CUSTOMIZED ASSAY DEVELOPMENTS IN ADDITION TO THE CATALOGUE. PLEASE REQUEST IF YOU DONT FIND WHAT YOU ARE LOOKING FOR

HS = *Homo Sapiens*; MM = *Mus Musculus*; RN = *Rattus Norvegicus*; CF = *Canis Familiaris*; CP = *Guinea Pig (Cavia Porcellus)*; RH = *Rhesus monkey (Macaca Mulatta)*; OC = *Rabbit (Oryctolagus cuniculus)*

FAMILY	RECEPTOR	SPECIES	COUPLING	Aequorin	cAMP	IPOne	GTPyS	RadioIigand binding	ERK1/2	Internalisation	
Adenosine	A ₁	HS	G _{1o}	FAST-001A	FAST-001C		FAST-001G	FAST-001B			
		MM	G _{1o}					FAST-031B			
		HS	G _s	FAST-002A	FAST-002C		FAST-002G	FAST-002B			
	A _{2A}	MM	G _s						FAST-032B		
		HS	G _s	FAST-003A	FAST-003C				FAST-003B		
		HS	G _{1o}	FAST-004A	FAST-004C		FAST-004G	FAST-004B			
	A _{2B}	MM	G _{1o}						FAST-033B		
		MM	G _{1o}								
		RN	G _{1o}						FAST-012B		
	Adrenergic	α _{1A}	HS	G _{12/13} /G _s	FAST-005A	FAST-005C	FAST-005I		FAST-012G		
HS			G _{12/13}	FAST-008A		FAST-008I			FAST-005B		
HS			G _{12/13}	FAST-009A		FAST-009I			FAST-008B		
α _{1B}		HS	G _{1o}	FAST-006A	FAST-006C				FAST-006B		
		HS	G _{1o}	FAST-007A				FAST-007G	FAST-007B		
		CF	G _{1o}					FAST-013G	FAST-013B		
α _{2A}		HS	G _{1o}	ES-032A	ES-032C		ES-032G		ES-032B		
		HS	G _s	ES-033A	ES-033C				ES-033B		
		HS	G _s		ES-034C				ES-034B		
β ₁		HS	G _s	ES-035A	ES-035C				ES-035B		
		HS	G _{12/13} /G _s	FAST-010A				FAST-010G	FAST-010B		
		HS	G _{12/13} /G ₁₄		FAST-011C			FAST-011G	FAST-011B		
Anaphylotaxin		CS ₂ (C5AR2/GPR77)	HS	β arrestin	FAST-0960***						
		AT ₁	HS	G _{12/13}	FAST-015A		FAST-015I			FAST-015B	
Angiotensin		AT ₂	HS	unidentified						FAST-016B	
	MM		unidentified						FAST-017B		
	MM		G _s	FAST-020A	FAST-020C		FAST-020G	FAST-020B			
Apelin	GPBA (TGR5/GPR131)	HS	G _s		FAST-0965C						
		CF	G _s		FAST-0966C						
		MM	G _s		FAST-0967C						
		RN	G _s		FAST-0968C						
Bombesin	BB ₁	HS	G _{12/13}	FAST-022A				FAST-022B			
		HS	G _{12/13}	FAST-023A					FAST-023B		
		HS	G _{12/13}	FAST-021A					FAST-021B		
Bradykinin	BB ₂	MM	G _{12/13}	FAST-018***							
		RN	G _{12/13}	FAST-019***							
		HS	G _{12/13}	FAST-027A		FAST-027I			FAST-027B		
Calcitonin	BB ₃	HS	G _{12/13}	FAST-0207A							
		HS	G _{12/13}	FAST-028A					FAST-028B		
		HS	G _{12/13}	FAST-025A	FAST-025C				FAST-025B		
Calcitonin	CGRP (CRLR/RAMP1)	HS	G _s		FAST-026C						
		HS	G _s	FAST-024A	FAST-024C				FAST-024B		
		HS	G _s		FAST-029C						
Calcitonin	AM2 (CRLR/RAMP3)	HS	G _s								
		HS	G _s								
Calcitonin	AM3 (CTR/RAMP3)	HS	G _s								
		HS	G _s								
Calcium	CaS	HS	G _{12/13} /G _{12/13}	FAST-0680A		FAST-0680I					
		HS	G _{1o}		FAST-040C		FAST-040G	FAST-040B	FAST-040E		
Cannabinoid	CB ₁	RN	G _{1o}		FAST-044C		FAST-044G	FAST-044B			
		HS	G _{1o}		FAST-041C		FAST-041G	FAST-041B			
		RN	G _{1o}		FAST-045C		FAST-045G	FAST-045B			
Chemerin	CMKLR1 (ChemR23)	HS	G _{1o}	FAST-050A	FAST-050C		FAST-050G	FAST-050B	FAST-050E		
		RN	G _{1o}	FAST-053A							
		MM	G _{1o}	FAST-051A					FAST-051B		
		MM	G _{1o}						FAST-052B		
		HS	β arrestin								
Chemokine	HCR (CCRL2)	HS	unidentified	FAST-0948***							
		HS	G _{1o}	FAST-058A	FAST-058C		FAST-058G	FAST-058B			
		MM	G _{1o}		FAST-059C						
		HS	G _{1o}	FAST-060A	FAST-060C		FAST-060G	FAST-060B			
		MM	G _{1o}	FAST-0600A	FAST-0600C			FAST-0600B			
		RN	G _{1o}	FAST-0616A				FAST-0616B			
		RH	G _{1o}	FAST-0710A				FAST-0710B			
		HS	G _{1o}	FAST-061A			FAST-061G	FAST-061B			
		MM	G _{1o}	FAST-0601A							
		HS	G _{1o}	FAST-069A			FAST-069G	FAST-069B			
Chemokine	CCR4	MM	G _{1o}	FAST-0602A							
		HS	G _{1o}	FAST-062A	FAST-062C		FAST-062G	FAST-062B	FAST-062E		
		MM	G _{1o}	FAST-0603A				FAST-0603B			
Chemokine	CCR5*	RN	G _{1o}	FAST-0617A	FAST-0617C			FAST-0617B			
		CF	G _{1o}	FAST-0712A							
		RH	G _{1o}	FAST-0711A	FAST-0711C			FAST-0711B			
		HS	G _{1o}	FAST-063A	FAST-063C		FAST-063G	FAST-063B			
		MM	G _{1o}	FAST-0604A	FAST-0604C						
		HS	G _{1o}	FAST-064A	FAST-064C		FAST-064G	FAST-064B	FAST-064E		
		MM	G _{1o}	FAST-0605A							
		HS	G _{1o}	FAST-065A			FAST-065G	FAST-065B			
		MM	G _{1o}	FAST-0606A							
		HS	G _{1o}	FAST-066A							
Chemokine	CCR8	MM	G _{1o}	FAST-0607A							
		HS	G _{1o}	FAST-067A	FAST-067C		FAST-067G				
		MM	G _{1o}	FAST-0608A							
Chemokine	CXCR1	HS	G _{1o}	FAST-071A	FAST-071C		FAST-071G	FAST-071B			
		MM	G _{1o}	FAST-0609A							
		HS	G _{1o}	FAST-075A	FAST-075C		FAST-075G	FAST-075B			
Chemokine	CXCR2	MM	G _{1o}	FAST-0610A							
		HS	G _{1o}	FAST-076A			FAST-076G	FAST-076B			
		MM	G _{1o}	FAST-0611A							
Chemokine	CXCR3b	HS	G _{1o}	FAST-0761A							
		HS	G _{1o}	FAST-077A	FAST-077C		FAST-077G	FAST-077B			
		MM	G _{1o}	FAST-0612A							
Chemokine	CXCR4	RN	G _{1o}	FAST-0619A							
		HS	G _{1o}	FAST-078A			FAST-078G				
		MM	G _{1o}	FAST-0613A							
Chemokine	CXCR6	HS	G _{1o}	FAST-080A	FAST-080C		FAST-080G				
		MM	G _{1o}	FAST-0614A							
		HS	G _{1o}								
Chemokine	CXCR7	HS	G _{1o}					FAST-081B			
		HS	G _{1o}	FAST-070A	FAST-070C		FAST-070G	FAST-070B	FAST-070E		
		MM	G _{1o}	FAST-0615A			FAST-0615G				
Chemokine	XCR1	RN	G _{1o}	FAST-0818A							
		HS	G _{1o}	FAST-085A	FAST-085C		FAST-085G				
		HS	G _{12/13} /G _s	FAST-090A	FAST-090C	FAST-090I		FAST-090B			
Cholecystokinin	CCK ₁	HS	G _{12/13}	FAST-091A		FAST-091I		FAST-091B			
		HS	G _{12/13}								
Corticotropin-releasing factor	CRF ₁	HS	G _s	FAST-095A	FAST-095C		FAST-095G	FAST-095B			
		HS	G _s		FAST-097C						
		RN	G _s		FAST-098C						
		HS	G _s		FAST-096C				FAST-096B		
Dopamine	D ₁	HS	G _s /G _{12/13}		FAST-0100C			FAST-0100B			
		D _{2L}	HS	G _{1o}	FAST-0101A	FAST-0101C		FAST-0101G	FAST-0101B		
		D _{2S}	HS	G _{1o}	FAST-0102A	FAST-0102C			FAST-0102B		
		D ₃	HS	G _{1o}				ES-173G	ES-173B		
		D _{4L}	HS	G _{1o}		FAST-099C		FAST-099G	FAST-099B		
Dopamine	D ₄	RN	G _{1o}	FAST-0103C				FAST-0103B			
		HS	G _s		FAST-0104C						
Endothelin	ET _A	HS	G _{12/13} /G _s	FAST-0105A				FAST-0105B			
		HS	G _{12/13} /G _{12/13}	FAST-0106A				FAST-0106B			
Formylpeptide	fMLP	HS	G _{12/13} /G _s	FAST-0342A							
		HS	G _{1o}	FAST-0340A	FAST-0340C		FAST-0340G	FAST-0340B			
		MM	G _{1o}		FAST-0343C						
		RN	G _{1o}		FAST-0344C						
		HS	G _{12/13} /G _s	FAST-0341A	FAST-0341C						
Free fatty acid	FFA1 (GPR40)	HS	G _s	FAST-0110A		FAST-0110I					
		MM	G _s	FAST-0109A							
		HS	G _{1o}	FAST-0111A	FAST-0111C		FAST-0111G				
		MM	G _{1o}		FAST-0118C						
		HS	G _{12/13} /G _s	FAST-0112A	FAST-0112C	FAST-0112I	FAST-0112G		FAST-0112E		
Free fatty acid	FFA2 (GPR43)*	MM	G _{12/13} /G _s	FAST-0116A	FAST-0116C	FAST-0116I	FAST-0116G				
		RN	G _{12/13} /G _s	FAST-0117A	FAST-0117C	FAST-0117I	FAST-0117G				
		RH	G _{12/13} /G _s	FAST-0124A	FAST-0124C						
		CF	G _{12/13} /G _s	FAST-0123A	FAST-0123C						
		HS	G _{12/13} /G _s								

FAMILY	RECEPTOR	SPECIES	COUPLING	Aequorin	cAMP	IPOne	GTPyS	Radioligand binding	ERK1/2	Internalisation	
	GPR35	HS	G ₁₀	FAST-0915A	FAST-0915C		FAST-0915G		FAST-0915E		
		MM	G ₁₀	FAST-0991A	FAST-0991C						
		RN	G ₁₀	FAST-0992A	FAST-0992C						
	GPR84	HS	G ₁₀	FAST-0935A	FAST-0935C		FAST-0935G		FAST-0935E	FAST-0935T	
		MM	G ₁₀	FAST-0993A	FAST-0993C						
		RN	G ₁₀	FAST-0994A	FAST-0994C						
	FFA4 (GPR120)	HS	G _q	FAST-0113A			FAST-0113I			FAST-0113E	
		MM	G _q	FAST-0114A							
		RN	G _q	FAST-0115A							
GABA	GABA B1a/B2	HS	G ₁₀	FAST-0120A	FAST-0120C		FAST-0120G	FAST-0120B			
	GABA B1b/B2	HS	G ₁₀		FAST-0122C						
	GABA (non-selective)	RN	G ₁₀						FAST-0121B		
Galanin	GAL1	HS	G ₁₀	FAST-0130A	FAST-0130C		FAST-0130G	FAST-0130B			
	GAL2	HS	G _{11/10}	FAST-0131A		FAST-0131I	FAST-0131G	FAST-0131B			
Ghrelin	GHS-R	HS	G ₁₁	FAST-0135A				FAST-0135B			
	Glucagon	HS	G _s	FAST-0138A	FAST-0138C			FAST-0138B			
Glucagon	GLP	HS	G _s	FAST-0139A	FAST-0139C			FAST-0139B		FAST-0139T	
	GLP-1	HS	G _s	FAST-0145A	FAST-0145C			FAST-0145B		FAST-0145T	
	GLP-2	MM	G _s		FAST-0147C			FAST-0147B		FAST-0147T	
		HS	G _s		FAST-0146C						
	QHRHR	HS	G _s		FAST-0160C						
	Secretin	HS	G _s	FAST-0161A	FAST-0161C						
	Glutamate (metabotropic)	mGlu ₁	HS	G ₁₁	FAST-0152A	FAST-0152C					
		mGlu ₂	HS	G ₁₀		FAST-0153C					
		mGlu ₃	HS	G ₁₀	FAST-0155A						
mGlu ₄		HS	G ₁₀		FAST-0150C		FAST-0150G				
mGlu ₅		HS	G _q	FAST-0151A		FAST-0151I		FAST-0151B			
		RN	G _q					FAST-0158B			
mGlu ₆		HS	G ₁₀				FAST-0157G				
mGlu ₇		HS	G ₁₀		FAST-0154C						
mGlu ₈		HS	G ₁₀				FAST-0156G				
Glycoprotein hormone		FSH	HS	G _s		FAST-0580C					
	LH	HS	G _s		FAST-0581C						
	TSH	HS	G _s , G ₁₀ , G ₁₁		FAST-0582C						
		MM	G _s , G ₁₀ , G ₁₁		FAST-0584C						
		RN	G _s , G ₁₀ , G ₁₁		FAST-0585C						
GnRH	GnRHR1	HS	G ₁₁	FAST-0583A				FAST-0583B			
GPR/Orphan	GPR3	HS	G _s		FAST-0700C***						
		MM	G _s		FAST-0703C***						
		RN	G _s		FAST-0704C***						
	GPR6	HS	G _s		FAST-0701C***						
	GPR12	HS	G _s		FAST-0702C***						
	GPR17	HS	G ₁₀	FAST-0903A	FAST-0903C	FAST-0903I				FAST-0903T	
	GPR17long	HS	G ₁₀	FAST-0996A	FAST-0996C	FAST-0996I					
	GPR17	MM	G ₁₀	FAST-0997A	FAST-0997C	FAST-0997I					
	GPR17	RN	G ₁₀	FAST-0998A	FAST-0998C	FAST-0998I					
	GPR18	HS	unidentified	FAST-0904***							
	GPR19 (GPR-NGA)	HS	unidentified	FAST-0905***							
	GPR20	HS	unidentified	FAST-0906***							
	GPR21	HS	G _s		FAST-0907C***						
	GPR22	HS	unidentified	FAST-0908***							
	GPR23 (LPAR4)	HS	unidentified	FAST-0640***							
	GPR25	HS	unidentified	FAST-0909***							
	GPR26	HS	G _s		FAST-0970C***						
	GPR27 (SREB1)	HS	unidentified	FAST-0910***							
	GPR30 (GPER)	HS	unidentified	FAST-0911***							
	GPR31	HS	unidentified	FAST-0912***							
	GPR32	HS	unidentified	FAST-0913***							
	GPR37	HS	unidentified	FAST-0916***							
	GPR37L1	HS	unidentified	FAST-0917***							
	GPR39	HS	G _{11/10} , G _s	FAST-0918A	FAST-0918C						
		MM	G _{11/10} , G _s	FAST-0932A	FAST-0932C						
		RN	G _{11/10} , G _s		FAST-0999C						
	GPR45	HS	unidentified	FAST-0919***							
	GPR50	HS	unidentified	FAST-0920***							
	GPR52	HS	G _s		FAST-0921C						
	GPR61	HS	G _s		FAST-0924C***						
	GPR62	HS	G _s		FAST-0979C***						
	GPR63	HS	unidentified	FAST-0925***							
	GPR75	HS	unidentified	FAST-0930***							
	GPR78	HS	G _s		FAST-0931C***						
	GPR82	HS	unidentified	FAST-0933***							
	GPR83 (GPR72)	HS	unidentified	FAST-0934***							
		MM	unidentified	FAST-0945***							
	GPR87 (HG03)	HS	unidentified	FAST-0937***							
	GPR88*	HS	G ₁₀	FAST-0938A	FAST-0938C						
		MM	G ₁₀		FAST-0963C						
		RN	G ₁₀		FAST-0964C						
	GPR101	HS	G _s		FAST-0941C***						
		MM	G _s		FAST-0953C***						
		RN	G _s		FAST-0954C***						
	GPR116	HS	unidentified	FAST-0975***							
	GPR132 (G2A)	HS	unidentified	FAST-0967***							
	GPR133	HS	unidentified	FAST-0968***							
	GPR139	HS	G _{11/10} , G _s	FAST-0980***							
	GPR141	HS	unidentified	FAST-0981***							
	GPR142	HS	G ₁₁			FAST-0969I					
	GPR146	HS	unidentified	FAST-0976***							
	GPR148	HS	unidentified	FAST-0982***							
	GPR149	HS	unidentified	FAST-0983***							
	GPR150	HS	unidentified	FAST-0984***							
	GPR151	HS	unidentified	FAST-0985***							
	GPR152	HS	unidentified	FAST-0942***							
	GPR153	HS	unidentified	FAST-0978***							
	GPR161 (RE2)	HS	G _s		FAST-0962C***						
	GPR162 (A-2)	HS	unidentified	FAST-0943***							
	GPR173 (SREB3)	HS	unidentified	FAST-0977***							
	GPR174 (DA6)	HS	unidentified	FAST-0944***							
	GPR171 (H963)	HS	unidentified	FAST-0946***							
	GPR176 (H9354)	HS	unidentified	FAST-0947***							
	GPR182 (HSGPCP)	HS	unidentified	FAST-0949***							
	GPRC5A (RAIG1)	HS	unidentified	FAST-0955***							
	GPRC5B (RAIG2)	HS	unidentified	FAST-0956***							
	GPRC5C (RAIG3)	HS	unidentified	FAST-0957***							
	GPRC5D (RAIG4)	HS	unidentified	FAST-0958***							
	LGR4	HS	unidentified	FAST-0972***							
	LGR5	HS	unidentified	FAST-0973***							
	LGR6	HS	unidentified	FAST-0974***							
	P2Y ₆	HS	unidentified	FAST-0950***							
	P2Y ₆	HS	unidentified	FAST-0986***							
	P2Y ₁₀	HS	unidentified	FAST-0951***							
	Histamine	H ₁	HS	G ₁₁	FAST-0170A		FAST-0170I		FAST-0170B		
		H ₂	HS	G _{1/2} , G ₁₀	FAST-0171A	FAST-0171C			FAST-0171B		
		H ₃ *	HS	G ₁₀	FAST-0172A	FAST-0172C		FAST-0172G	FAST-0172B		
			RN	G ₁₀				FAST-0174G	FAST-0174B		
	H ₄	HS	G ₁₀	FAST-0173A			FAST-0173G	FAST-0173B			
	Hydroxycarboxylic acid	GPR109a (HM74a/HCA2)	HS	G ₁₀	FAST-0350A	FAST-0350C		FAST-0350G	FAST-0350B		
		GPR109b (HM74/HCA3)	HS	G ₁₀	FAST-0351A	FAST-0351C					
		GPR81 (HCA1)	HS	G ₁₀	FAST-0352A	FAST-0352C		FAST-0352G			
			MM	G ₁₀		FAST-0353C					
	Kiss1/Kisspeptin	GPR54 (KISS1)	HS	G _q	FAST-0180A				FAST-0180B		
			RN	G _q	FAST-0181A						
	Leukotriene	BLT ₁ (LTB4R)	HS	G _{11/10} , G ₁₀	FAST-0192A			FAST-0192G			
		BLT ₂ (LTB4R2)	HS	G _{11/10} , G ₁₀	FAST-0194A						
		CysLT ₁	HS	G ₁₁	FAST-0190A				FAST-0190B		
		CysLT ₂ *	HS	G ₁₁	FAST-0191A				FAST-0191B		

FAMILY	RECEPTOR	SPECIES	COUPLING	Aequorin	cAMP	IPOne	GTPyS	Radioligand binding	ERK1/2	Internalisation
Lysophospholipids	OXE (HM74like)	HS	G ₁₀	FAST-0193A						
	LPA ₃ (EDG7)	HS	G _{q11} , G ₁₀	FAST-0632A		FAST-0632I				
	LPA ₆ (GPR92)	HS	G _{q11} , G _s			FAST-0641I				
	GPR34	HS	G ₁₀	FAST-0914A	FAST-0914C		FAST-0914G			FAST-0914T FAST-0922T
Mas related	GPR55	HS	G ₁₃	FAST-0922A						
	MrgX1	HS	G _{q11}	FAST-0213A						
	MrgX2	HS	G _{q11}	FAST-0214A						
	MAS	HS	G _{q11}	FAST-0210A						
	MRG	HS	unidentified	FAST-0211**						
	MRGD (TGR7)	HS	G _{q11}	FAST-0212A	FAST-0212C		FAST-0212G			
	MRGE	HS	unidentified	FAST-0216***						
	MRGF (RTA)	HS	unidentified	FAST-0215***						
Melanin concentrating hormone	MCH ₁	HS	G _{q11} , G ₁₀	FAST-0220A	FAST-0220C		FAST-0220G			
	MCH ₂	MM	G _{q11} , G ₁₀	FAST-0660A						
	MCH ₂	HS	G _{q11}	FAST-0221A						FAST-0221B FAST-0230B
Melanocortin	MC ₁	HS	G _s		FAST-0230C					
	MC ₂ (MC ₂ /MRAP)	HS	G _s	FAST-0231A	FAST-0231C					
	MC ₃	HS	G _s		FAST-0232C					FAST-0232B
	MC ₃	MM	G _s		FAST-0235C					
	MC ₄	HS	G _s		FAST-0233C					FAST-0233B
	MC ₅	HS	G _s		FAST-0234C					FAST-0234B
Melatonin	MT ₁	HS	G ₁₀	FAST-0240A			FAST-0240G			FAST-0240B
	MT ₂	HS	G ₁₀	FAST-0241A			FAST-0241G			FAST-0241B
Motilin	MTL	HS	G _{q11}	FAST-0250A		FAST-0250I				FAST-0250B
Muscarinic	M ₁	HS	G _{q11}	FAST-0260A		FAST-0260I	FAST-0260G			FAST-0260B
		RN	G _{q11}	FAST-0262A						
	M ₂	HS	G ₁₀	FAST-0261A	FAST-0261C		FAST-0261G			FAST-0261B
		RN	G ₁₀	FAST-0263A						
	M ₃	HS	G _{q11}	ES-212A		ES-212I				ES-212B
		RN	G _{q11}	FAST-0266A						
	M ₄	HS	G ₁₀	ES-213A			ES-213G			ES-213B
		RN	G ₁₀	FAST-0267A						
	M ₅	HS	G _{q11}	FAST-0264A		FAST-0264I				FAST-0264B
		RN	G _{q11}							
	Non-selective	RN	G _{q11}							FAST-0265B FAST-0269B
	Neurokinin	NK ₁	HS	G _{q11}	FAST-0269A					
MM			G _{q11}	FAST-0621A						
RN			G _{q11}	FAST-0622A						
NK ₂		HS	G _{q11}	FAST-0270A						FAST-0270B
		MM	G _{q11}	FAST-0623A						
		RN	G _{q11}	FAST-0624A						
NK ₃		HS	G _{q11}	FAST-0271A		FAST-0271I				FAST-0271B
		MM	G _{q11}	FAST-0273A						FAST-0273B
		RN	G _{q11}	FAST-0272A						FAST-0272B
		RH	G _{q11}	FAST-0275A						FAST-0275B
		OC	G _{q11}	FAST-0276A						FAST-0276B
		CP	G _{q11}	FAST-0274A						
Neurodynin U	NMLU-1R (FM3)	HS	G _{q11}	FAST-0280A						FAST-0280B
	NMLU-2R (FM4)	HS	G _{q11}	FAST-0281A		FAST-0281I				FAST-0281B
Neuropeptide	NPY ₁	HS	G ₁₀	FAST-0320A	FAST-0320C		FAST-0320G			FAST-0320B
		RN	G ₁₀	FAST-0318A	FAST-0318C					
		MF	G ₁₀	FAST-0319A	FAST-0319C					
	NPY ₂	HS	G _{q11} , G ₁₀	FAST-0321A	FAST-0321C					FAST-0321B
		RN	G _{q11} , G ₁₀	FAST-0324A	FAST-0324C					
		MF	G _{q11} , G ₁₀	FAST-0325A	FAST-0325C					
	NPY ₄	HS	G _{q11} , G ₁₀	FAST-0323A	FAST-0323C					
		RN	G _{q11} , G ₁₀	FAST-0326A	FAST-0326C					
		MF	G _{q11} , G ₁₀	FAST-0327A	FAST-0327C					
	NPY ₅	HS	G ₁₀	FAST-0322A	FAST-0322C					
		RN	G ₁₀	FAST-0328A						
		MF	G ₁₀	FAST-0329A	FAST-0329C					
	GPR7	HS	G ₁₀	FAST-0290A	FAST-0290C		FAST-0290G			FAST-0290B
		MM	G ₁₀	FAST-0291A						
		RN	G ₁₀	FAST-0292A						
	GPR8	HS	G ₁₀	FAST-0310A	FAST-0310C		FAST-0310G			FAST-0310B
	NPFF1	HS	G ₁₀		FAST-0412C		FAST-0412G			FAST-0412B
	NPFF2S	HS	G ₁₀	FAST-0295A			FAST-0295G			FAST-0295B
NPS (Ile)	HS	G _a	FAST-0301A						FAST-0301B	
NPS (Asn)	HS	G _a	FAST-0300A		FAST-0300I				FAST-0300B	
Neurotensin	QRFP (GPR103)	HS	G _{q11} , G ₁₀	FAST-0302A						FAST-0302B
	NTS ₁	HS	G _{q11}	FAST-0330A						FAST-0330B
	NTS ₂	HS	G _{q11}							FAST-0331B
NMDA	GRIN1	HS	Ion channel							FAST-0361B
	ORL1	HS	G ₁₀		FAST-0360C		FAST-0360G			FAST-0360B FAST-0362B
Oleylethanolamide	GPR119*	HS	G _s		FAST-0370C					
	OP1 (d)	HS	G ₁₀	FAST-0379A	FAST-0379C		FAST-0379G			FAST-0379B
Opioid	OP2 (k)	HS	G ₁₀	FAST-0380A	FAST-0380C		FAST-0380G			FAST-0380B
	OP3 (μ)	HS	G ₁₀	FAST-0381A	FAST-0381C		FAST-0381G			FAST-0381B FAST-0381E
	OP3 (μ)	MM	G ₁₀				FAST-0382G			
	OP3 (μ)	RN	G ₁₀							FAST-0383B
Orexin	OX ₁	HS	G _{q11}	FAST-0390A		FAST-0390I				FAST-0390B
		RN	G _{q11}	FAST-0392A		FAST-0392I				
	OX ₂	HS	G _{q11}	FAST-0391A		FAST-0391I				FAST-0391B
		RN	G _{q11}	FAST-0393A		FAST-0393I				
Parathyroid hormone	PTH1	HS	G _s , G _{q11}		FAST-0140C					
	PTH2	HS	G _s , G _{q11}		FAST-0141C					
pH sensing	GPR4	HS	G _s		FAST-0901C					
	GPR65	HS	G _{q11} , G _s			FAST-0927C	FAST-0927I			
GPR68 (OGR1)	HS	G _{q11} , G _s			FAST-0928C	FAST-0928I				
Platelet-Activating Factor	PAF	HS	G _s , G _{q11}	FAST-0650A		FAST-0650C				
Prokineticin	PKR1	HS	G _{q11}	FAST-0400A						FAST-0400B
	PKR2	HS	G _{q11}	FAST-0401A						FAST-0401B
Prolactin-releasing peptide	PrRP (GPR10)	HS	G _{q11}	FAST-0410A						
Prostanoid	DP2/CRT2	HS	G ₁₀	FAST-0420A	FAST-0420C		FAST-0420G			FAST-0420B
	DP	HS	G _s	FAST-0430A	FAST-0430C					FAST-0430B
	EP ₁	HS	G _{q11}	FAST-0432A						FAST-0432B
	EP ₂	HS	G _s		FAST-0443C					FAST-0443B
	EP ₃	HS	G ₁₀	FAST-0444A						FAST-0444B
	EP ₄	HS	G _s	FAST-0431A	FAST-0431C					FAST-0431B
	FP	HS	G _{q11}			FAST-0434C	FAST-0433I			
	IP1	HS	G _s , G _{q11}				FAST-0434I			
IP2	HS	G _{q11}	FAST-0438A			FAST-0438I				
Protease-activated	PAR1	HS	G _{q11} , G ₁₀ , G _{12/13}	FAST-0439A			FAST-0439G			
	PAR2	HS	G ₁₁ , G ₁₀	FAST-0440A			FAST-0440G			
	PAR3	HS	G _{q11} , G ₁₀	FAST-0441A						
	PAR4	HS	G _{q11} , G ₁₀	FAST-0442A						
Purinergic	P2Y ₁	HS	G _{q11}							
	P2Y ₂	HS	G _{q11}				FAST-0452I			
	P2Y ₂ *	HS	G _{q11}				FAST-0453I			
	P2Y ₂ **	HS	G _{q11}				FAST-0454I			
	P2Y ₆	HS	G _{q11}	FAST-0455A			FAST-0455I			
	P2Y ₇	MM	G _{q11}				FAST-0456I			
	P2Y ₇ *	HS	G _s , G _{q11}	FAST-0456A						
	P2Y ₁₂	HS	G ₁₀	FAST-0458A						
P2Y ₁₂ *	HS	G ₁₀	FAST-0457F**							
P2Y ₁₄	HS	G ₁₀				FAST-0959G				
Relaxin	RXFP1	HS	G _s		FAST-0469C					
	RXFP3 (GPCR135)	HS	G ₁₀	FAST-0470A	FAST-0470C		FAST-0470G			
	RXFP4 (GPCR142)	HS	G ₁₀	FAST-0471A	FAST-0471C		FAST-0471G			
Serotonin	5-HT _{1A}	MM	G ₁₀				FAST-0473G			
		RN	G ₁₀	FAST-0500A	FAST-0500C		FAST-0500G			FAST-0500B
	5-HT _{1B}	MM	G ₁₀				FAST-0475G			FAST-0475B
		RN	G ₁₀				FAST-0515G			FAST-0515B
	5-HT _{2A}	CF	G ₁₀				FAST-0476G			FAST-0476B
		OC	G ₁₀				FAST-0477G			FAST-0477B

FAMILY	RECEPTOR	SPECIES	COUPLING	Aequorin	cAMP	IPone	GTPyS	Radioligand binding	ERK1/2	Internalisation	
	5-HT _{1B}	HS	G ₁₀		FAST-0501C		FAST-0501G	FAST-0501B			
		MM	G ₁₀				FAST-0478G	FAST-0478B			
		RN	G ₁₀		FAST-0516C		FAST-0516G	FAST-0516B			
		CF	G ₁₀				FAST-0479G	FAST-0479B			
	5-HT _{1D}	HS	G ₁₀					FAST-0502G	FAST-0502B		
		MM	G ₁₀						FAST-0481B		
		RN	G ₁₀						FAST-0482B		
		CF	G ₁₀						FAST-0483B		
	5-HT _{1E}	HS	G ₁₀		FAST-0503C			FAST-0503G	FAST-0503B		
		OC	G ₁₀						FAST-0485B		
	5-HT _{1F}	HS	G ₁₀		FAST-0504C			FAST-0504G	FAST-0504B		
		MM	G ₁₀						FAST-0487B		
		RN	G ₁₀						FAST-0488B		
		CF	G ₁₀					FAST-0489G	FAST-0489B		
	5-HT _{2A}	OC	G ₁₀					FAST-0490G	FAST-0490B		
		HS	G ₁₁	FAST-0505A			FAST-0505I		FAST-0505B		
		MM	G ₁₁						FAST-0491B		
		RN	G ₁₁	FAST-0517A			FAST-0517I		FAST-0517B		
	5-HT _{2B}	CF	G ₁₁						FAST-0492B		
		OC	G ₁₁						FAST-0493B		
		HS	G ₁₁	FAST-0506A					FAST-0506B		
		RN	G ₁₁	FAST-0518A			FAST-0518I				
	5-HT _{2C} non edited	HS	G ₁₁	FAST-0508A					FAST-0508B		
		RN	G ₁₁	FAST-0519A							
	5-HT _{2C} edited	HS	G ₁₁	FAST-0507A			FAST-0507I		FAST-0507B		
	5-HT ₃	HS	Ion channel	FAST-0512A					FAST-0512B		
	5-HT ₄	HS	G _s			FAST-0513C			FAST-0513B		
		RN	G _s			FAST-0495C					
	5-HT _{5a}	HS	G ₁₀	FAST-0510A					FAST-0510B		
		5-HT ₆	HS	G _s	FAST-0509A	FAST-0509C			FAST-0509B		
5-HT _{7a}	MM	G _s			FAST-0590C			FAST-0590B			
	RN	G _s			FAST-0494C						
5-HT _{7b}	HS	G _s			FAST-0511C			FAST-0511B			
	OC	unidentified						FAST-0514B			
Sigma Somatostatin	sst ₁	HS	G _i				FAST-0520G	FAST-0520B			
	sst ₂	HS	G _i	FAST-0521A	FAST-0521C		FAST-0521G	FAST-0521B			
	sst ₃	HS	G _i	FAST-0522A	FAST-0522C		FAST-0522G	FAST-0522B			
	sst ₄	HS	G _i	FAST-0523A	FAST-0523C		FAST-0523G	FAST-0523B			
		RN	G _i								
	sst ₅	HS	G _i	FAST-0524A			FAST-0524G	FAST-0524B			
Sphingosine	S ₁ P ₁ (Edg1)	HS	G ₁₀		FAST-0197A	FAST-0197C					
		MM	G ₁₀		FAST-0625A						
		RN	G ₁₀		FAST-0634A	FAST-0634C					
		CP	G ₁₀		FAST-0627A						
	S ₁ P ₂ (Edg5)	HS	G ₂ , G _{12/13} , G _s		FAST-0198A						
	S ₁ P ₃ (Edg3)	HS	G _s , G ₁₀ , G _s		FAST-0199A						
		CP	G ₁₀		FAST-0628A						
	S ₁ P ₄ (Edg6)	HS	G ₁₀ , G _s , G _{12/13}		FAST-0200A					FAST-0200T	
	S ₁ P ₄ (Edg8)	HS	G ₁₀ , G _{12/13}		FAST-0201A			FAST-0201G	FAST-0201E		
		MM	G ₁₀ , G _{12/13}		FAST-0626A						
Succinate/Keto glutarate	GPR91	HS	G _{2/11} , G ₁₀	FAST-0450A	FAST-0450C						
		MM	G _{2/11} , G ₁₀	FAST-0449A	FAST-0449C						
		RN	G _{2/11} , G ₁₀	FAST-0451A	FAST-0451C						
Trace amine	GPR99	HS	G ₁₁	FAST-0940A		FAST-0987C					
	TAAR1 (TA1)	HS	G _s								
	TAAR2 (GPR58)	HS	unidentified	FAST-0923***							
	TAAR5 (PNR)	HS	unidentified	FAST-0952***							
	TAAR6 (TA4)	HS	unidentified	FAST-0989***							
	TAAR8 (TA5)	HS	unidentified	FAST-0990***							
	TAAR9 (TA3)	HS	unidentified	FAST-0988***							
TRH	HS	G _s	FAST-0530A			FAST-0530I	FAST-0530B				
Tyrosine kinase receptor	EGFR	HS	PLC	FAST-1600A							
Urotensin II	UT-II	HS	G ₁₁	FAST-0540A		FAST-0540I		FAST-0540B			
		RN	G ₁₁	FAST-0541A							
Vasopressin	V _{1a}	HS	G ₁₁	FAST-0550A		FAST-0550I		FAST-0550B			
		RN	G ₁₁	FAST-0555A		FAST-0555I					
		CF	G ₁₁	FAST-0556A		FAST-0556I					
		HS	G ₁₁	FAST-0551A		FAST-0551I		FAST-0551B			
	V _{1b}	RN	G ₁₁			FAST-0553I		FAST-0553B			
		HS	G _s	FAST-0552A	FAST-0552C	FAST-0552I		FAST-0552B			
	V ₂	RN	G _s		FAST-0557C						
		CF	G _s		FAST-0558C						
	OT (oxytocin)	HS	G ₁₁	FAST-0554A		FAST-0554I					
		RN	G ₁₁	FAST-0559A		FAST-0559I					
VIP/PACAP	PAC ₁	HS	G _s	FAST-0560A	FAST-0560C						
	VPAC ₁	HS	G _s	FAST-0561A	FAST-0561C			FAST-0561B	FAST-0561E		
		HS	G _s								
	VPAC ₂	HS	G _s	FAST-0562A	FAST-0562C						

*: Receptors could have limited access due to patent restrictions in certain territories

** : this assay is performed using fluorescent calcium measurement

*** : means that the cell line is available for functional assay. It has been validated for mRNA, cell surface expression and constitutive activity but not with a ligand

Assays available for use in testing services and research agreements provided by Euroscreen

New assay

WE PERFORM CUSTOMIZED ASSAY DEVELOPMENTS IN ADDITION TO THE CATALOGUE. PLEASE REQUEST IF YOU DON'T FIND WHAT YOU ARE LOOKING FOR
HS = *Homo Sapiens* ; MM = *Mus Musculus* ; RN = *Rattus Norvegicus* ; CF = *Canis Familiaris* ; CP = *Guinea Pig (Cavia Porcellus)*

Biomarkers

FAMILY	Biomarker	SPECIES	Cellular
Cytokine	IFN γ	HS	FAST-1100
	IL1 β	HS	FAST-1101
	IL2	HS	FAST-1102
	IL4	HS	FAST-1103
	IL5	HS	FAST-1104
	IL6	HS	FAST-1105
	IL8	HS	FAST-1106
	IL10	HS	FAST-1107
	IL12	HS	FAST-1108
	IL17	HS	FAST-1109
	TNF α	HS	FAST-1110
Insulin	Insulin	HS	FAST-1111
Amyloid	Amyloid β 1-40	HS	FAST-1112

ADME/TOX

FAMILY	Target	SPECIES	Detection	Assay
Cytochrome	CYP1A2	HS	Luminescence	FAST-1200
	CYP2C9	HS		FAST-1201
	CYP2C19	HS		FAST-1202
	CYP2D6	HS		FAST-1203
	CYP3A4	HS		FAST-1204
	CYP19 (aromatase)	HS		Fluorescence
Cytotoxicity	HepG2	HS	Luminescence	FAST-1205
Metabolic Stability	Microsome	HS	HPLC / MS	FAST-1206
Plasma Protein Binding	Equilibrium dialysis	HS	HPLC MS / MS	FAST-1207
ion channel	hERG	HS	Radiometric	FAST-1208

Tyrosine Kinase Receptor

FAMILY	Target	SPECIES	Cellular
RTK	EGF-R	HS	FAST-1600A

Enzymatic activity

FAMILY	Target	SPECIES	Detection	Biochemical	Cellular
5 α -reductase	SRD5A1	HS	HTRF		FAST-1408
Acetylcholine-esterase	AchE	HS	Fluorescence	FAST-1403	
Catechol-O-Methyltransferase	COMT	HS	Absorbance	FAST-1402	
Cyclooxygenase	COX2	HS	Absorbance	FAST-1406	
Monoamine Oxidase	MAO-A	HS	Luminescence	FAST-1400	
	MAO-B	HS	Luminescence	FAST-1401	
NO synthase	eNOS	HS	Radiometric	FAST-1407	
Phosphodiesterase	PDE3	HS	HTRF	FAST-1404	
	PDE4	HS	HTRF	FAST-1405	

Ion Channels

FAMILY	Subfamily	Target	SPECIES	Binding	Cellular	
Ligand-gated	GABA	BZD (Central)	RN	FAST-1302		
	Glutamate	GRIN1	HS	FAST-0361B		
	Serotonin	5-HT $_3$	HS	FAST-0512B	FAST-0512A	
Voltage-gated	K $^+$ channel	hERG	HS	FAST-1208		
	Nicotinic	N neuronal α 4 β 2	RN	FAST-1303		
		Ca $^{2+}$ L-Type	Diltiazem site	RN	FAST-1304	
			Dihydropyridine site	RN	FAST-1305	
	Verapamil site		RN	FAST-1306		
	TRP Channels	TRPA1		HS		FAST-1301A
TRPV1			HS		FAST-1300A/I	

Transporters

FAMILY	Transporter	SPECIES	Binding
Amine transporters	Dopamine	HS	FAST-1000B
	Norepinephrine	HS	FAST-1001B
	Serotonin	HS	FAST-1002B

k_{on}/k_{off}

Assays validated for determining association and dissociation constants of test compound using kinetics of radioligand competition binding

FAMILY	Target	SPECIES	Binding
Chemokine	CCR2b	HS	FAST-060B
Dopamine	D $_{2L}$	HS	FAST-0101B
	D $_{2S}$	HS	FAST-0102B
Serotonin	5-HT $_{1A}$	HS	FAST-0500B
	5-HT $_{1B}$	HS	FAST-0501B
	5-HT $_{1D}$	HS	FAST-0502B
	5-HT $_{2B}$	HS	FAST-0506B
Somatostatin	sst $_2$	HS	FAST-0521B
	sst $_3$	HS	FAST-0522B
	sst $_5$	HS	FAST-0524B

Profiling

All profilings are aimed at using naturally-coupled signaling pathways

FAMILY	Target number	SPECIES
ADME/TOX	9	HS
Chemokine	20	HS
	18	MM
CNS	37	HS
Diversity	57	HS
Inflammation	56	HS
Metabolic	54	HS
mGlu	8	HS
Muscarinic	5	HS
Orphan	79	HS
Safety	44	HS/RN
Sensory Pain	42	HS
Serotonin	14	HS