

Cellular Assays

The following list of Gal4-reporter assays (so-called "Mammalian-1-Hybrid" or "Mammalian-2-Hybrid" assays) can be employed for general or selectivity screening purposes.

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
TR α	NR1A1	<i>H. sapiens</i>	Triiodothyronine (T3)
TR β	NR1A2	<i>H. sapiens</i>	Triiodothyronine (T3)
RAR α (human)	NR1B1	<i>H. sapiens</i>	TTNPB
RAR α (rat)	NR1B1	<i>R. norvegicus</i>	TTNPB
RAR β (human)	NR1B2	<i>H. sapiens</i>	TTNPB
RAR β (rat)	NR1B2	<i>R. norvegicus</i>	TTNPB
RAR γ (human)	NR1B3	<i>H. sapiens</i>	TTNPB
RAR γ (rat)	NR1B3	<i>R. norvegicus</i>	TTNPB
PPAR α (human)	NR1C1	<i>H. sapiens</i>	GW7647
PPAR α (mouse)	NR1C1	<i>M. musculus</i>	GW7647
PPAR α (rat)	NR1C1	<i>R. norvegicus</i>	GW7647
PPAR β/δ (human)	NR1C2	<i>H. sapiens</i>	GW501516
PPAR β/δ (mouse)	NR1C2	<i>M. musculus</i>	GW501516
PPAR β/δ (rat)	NR1C2	<i>R. norvegicus</i>	GW501516
PPAR γ (human)	NR1C3	<i>H. sapiens</i>	Rosiglitazone (RGZ)
PPAR γ (mouse/rat)	NR1C3	<i>M. musculus</i> <i>R. norvegicus</i>	Rosiglitazone (RGZ)
LXR β	NR1H2	<i>H. sapiens</i>	T0901317
LXR α	NR1H3	<i>H. sapiens</i>	T0901317
FXR (human)	NR1H4	<i>H. sapiens</i>	GW4064

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
FXR (mouse)	NR1H4	<i>M. musculus</i>	GW4064
FXR (rat)	NR1H4	<i>R. norvegicus</i>	GW4064
VDR	NR1I1	<i>H. sapiens</i>	1,25-Dihydroxycholecalciferol (VitD3)
PXR (human)	NR1I2	<i>H. sapiens</i>	SR12813
PXR (mouse)	NR1I2	<i>M. musculus</i>	Pregnenolone-16 α -carbonitrile (PCN)
PXR (rat)	NR1I2	<i>R. norvegicus</i>	Pregnenolone-16 α -carbonitrile (PCN)
CAR (human)	NR1I3	<i>H. sapiens</i>	CITCO
CAR (mouse)	NR1I3	<i>M. musculus</i>	TCPOBOP
CAR (rat)	NR1I3	<i>R. norvegicus</i>	Clotrimazole (Clot)
RXR α	NR2B1	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
RXR β	NR2B2	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
RXR γ	NR2B3	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
ER α	NR3A1	<i>H. sapiens</i>	17 β -Estradiol (b-Est)
ER β	NR3A2	<i>H. sapiens</i>	17 β -Estradiol (b-Est)
ERR α	NR3B1	<i>H. sapiens</i>	Diethylstilbestrol (DES)
ERR β	NR3B2	<i>H. sapiens</i>	published tool cpd (DY131)
ERR γ	NR3B3	<i>H. sapiens</i>	4-OH Tamoxifen (OHT)
GR	NR3C1	<i>H. sapiens</i>	Dexamethasone (DEX)
MR	NR3C2	<i>H. sapiens</i>	Aldosterone (Ald)
PR	NR3C3	<i>H. sapiens</i>	Progesterone (Prog)
AR	NR3C4	<i>H. sapiens</i>	Dihydrotestosterone (DHT)
NURR1	NR4A2	<i>H. sapiens</i>	Phenex proprietary tool cpd