

## NR Selectivity Overview Panel

The following list of Gal4-reporter assays represent the assays included in the *NR Selectivity Overview Panel*:

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
TR $\alpha$	NR1A1	<i>H. sapiens</i>	Triiodothyronine (T3)
RAR $\alpha$	NR1B1	<i>H. sapiens</i>	TTNPB
PPAR $\alpha$	NR1C1	<i>H. sapiens</i>	GW7647
PPAR $\gamma$	NR1C3	<i>H. sapiens</i>	Rosiglitazone (RGZ)
LXR $\alpha$	NR1H3	<i>H. sapiens</i>	T0901317
FXR	NR1H4	<i>H. sapiens</i>	GW4064
VDR	NR1I1	<i>H. sapiens</i>	1,25-Dihydroxycholecalciferol (VitD3)
PXR	NR1I2	<i>H. sapiens</i>	SR12813
CAR	NR1I3	<i>H. sapiens</i>	CITCO
RXR $\alpha$	NR2B1	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
ER $\alpha$	NR3A1	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ER $\beta$	NR3A2	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ERR $\alpha$	NR3B1	<i>H. sapiens</i>	Diethylstilbestrol (DES)
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)

## NR Selectivity Full Phenex Panel

The following list of Gal4-reporter assays represent the assays included in the *NR Selectivity Full Phenex Panel*:

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
TR $\alpha$	NR1A1	<i>H. sapiens</i>	Triiodothyronine (T3)
TR $\beta$	NR1A2	<i>H. sapiens</i>	Triiodothyronine (T3)
RAR $\alpha$	NR1B1	<i>H. sapiens</i>	TTNPB
RAR $\beta$	NR1B2	<i>H. sapiens</i>	TTNPB
RAR $\gamma$	NR1B3	<i>H. sapiens</i>	TTNPB
PPAR $\alpha$	NR1C1	<i>H. sapiens</i>	GW7647
PPAR $\beta/\delta$	NR1C2	<i>H. sapiens</i>	GW501516
PPAR $\gamma$	NR1C3	<i>H. sapiens</i>	Rosiglitazone (RGZ)
LXR $\beta$	NR1H2	<i>H. sapiens</i>	T0901317
LXR $\alpha$	NR1H3	<i>H. sapiens</i>	T0901317
FXR	NR1H4	<i>H. sapiens</i>	GW4064
VDR	NR1I1	<i>H. sapiens</i>	1,25-Dihydroxycholecalciferol (VitD3)
PXR	NR1I2	<i>H. sapiens</i>	SR12813
CAR	NR1I3	<i>H. sapiens</i>	CITCO
RXR $\alpha$	NR2B1	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
RXR $\beta$	NR2B2	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
RXR $\gamma$	NR2B3	<i>H. sapiens</i>	9-cis-Retinoic Acid (9cisRA)
ER $\alpha$	NR3A1	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ER $\beta$	NR3A2	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ERR $\alpha$	NR3B1	<i>H. sapiens</i>	Diethylstilbestrol (DES)

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
ERR $\beta$	NR3B2	<i>H. sapiens</i>	published tool cpd (DY131)
ERR $\gamma$	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

## NR Selectivity Xenobiotic Panel

The following list of biochemical FRET assays and Gal4-reporter assays represent the assays available for xenobiotic liability testing:

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Domain	Assay Type	Control Agonist
FXR (human)	NR1H4	LBD	FRET	GW4064
FXR (mouse)	NR1H4	LBD	FRET	GW4064
PXR / SXR (human)	NR1I2	LBD	FRET	SR12813
FXR (human)	NR1H4	LBD	Gal4 (M1H)	GW4064
FXR (mouse)	NR1H4	LBD	Gal4 (M1H)	GW4064
FXR (rat)	NR1H4	LBD	Gal4 (M1H)	GW4064
PXR / SXR (human)	NR1I2	LBD	Gal4 (M1H)	SR12813
PXR (rat)	NR1I2	LBD	Gal4 (M1H)	Pregnenolone-16a- carbonitrile (PCN)
PXR (mouse)	NR1I2	LBD	Gal4 (M1H)	Pregnenolone-16a- carbonitrile (PCN)
CAR (human)	NR1I3	LBD	Gal4 (M2H with NCoA3)	CITCO
CAR (rat)	NR1I3	LBD	Gal4 (M2H with NCoA3)	Clotrimazole (Clot)
CAR (mouse)	NR1I3	LBD	Gal4 (M1H)	TCPOBOP

## NR Selectivity Metabolic Effect FRET Panel

The following list of biochemical FRET assays represent the assays included in the *NR Selectivity Metabolic Effect FRET Panel*.

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Domain	Expression System	Control Agonist
TR $\alpha$	NR1A1	LBD	<i>E. coli</i>	Triiodothyronine (T3)
TR $\beta$	NR1A2	LBD	<i>E. coli</i>	Triiodothyronine (T3)
PPAR $\alpha$	NR1C1	LBD	<i>E. coli</i>	GW7647
PPAR $\beta/\delta$	NR1C2	LBD	<i>E. coli</i>	GW501516
PPAR $\gamma$	NR1C3	LBD	<i>E. coli</i>	Rosiglitazone (RGZ)
LXR $\beta$	NR1H2	LBD	<i>E. coli</i>	T0901317
LXR $\alpha$	NR1H3	LBD	<i>E. coli</i>	T0901317
FXR	NR1H4	LBD	<i>E. coli</i>	GW4064
VDR	NR1I1	LBD	<i>E. coli</i>	1,25-Dihydroxycholecalciferol (VitD3)
RXR $\alpha$	NR2B1	full length	<i>E. coli</i>	9-cis-Retinoic Acid (9cisRA)
ER $\beta$	NR3A2	LBD	<i>E. coli</i>	17 $\beta$ -Estradiol (b-Est)
ERR $\alpha$	NR3B1	LBD	<i>E. coli</i>	Diethylstilbestrol (DES)
ERR $\gamma$	NR3B3	LBD	<i>E. coli</i>	4-OH Tamoxifen (OHT)

## NR Selectivity Endocrine Disruptor Panel

The following list of Gal4-reporter assays represent the assays included in the *NR Selectivity Endocrine Disruptor Panel*:

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Species	Control Agonist
TR $\alpha$	NR1A1	<i>H. sapiens</i>	Triiodothyronine (T3)
ER $\alpha$	NR3A1	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ER $\beta$	NR3A2	<i>H. sapiens</i>	17 $\beta$ -Estradiol (b-Est)
ERR $\alpha$	NR3B1	<i>H. sapiens</i>	Diethylstilbestrol (DES)
ERR $\beta$	NR3B2	<i>H. sapiens</i>	published tool cpd (DY131)
ERR $\gamma$	NR3B3	<i>H. sapiens</i>	4-OH Tamoxifen (OHT)
AR	NR3C4	<i>H. sapiens</i>	Dihydrotestosterone (DHT)