

NR Resource

Phenex has assembled the NR Resource - a worldwide unmatched collection of clones, expression constructs and assays to enable Nuclear Receptor drug discovery & research. This collection comprises over 3,000 recombinant Nuclear Receptor and Cofactor constructs in various assay and expression formats, i.e. including all 48 human Nuclear Receptors. Taking the NR resource as a basis, Phenex has developed assays for most of the Nuclear Receptors in different formats.

Selection of available Nuclear Receptor clones and assay formats:

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Clone full length	Clone LBD	Y2H	Gal4	FRET
DAX1	NR0B1	X		X		
SHP	NR0B2	X		X		
TR α	NR1A1	X	X	X	X	X
TR β	NR1A2	X	X	X	X	X
RAR α	NR1B1	X	X	X	X	X
RAR α (rat)	NR1B1		X		X	
RAR β	NR1B2	X	X	X	X	X
RAR β (rat)	NR1B2		X		X	
RAR γ	NR1B3	X	X	X	X	
RAR γ (rat)	NR1B3		X		X	
PPAR α (human)	NR1C1	X	X	X	X	X
PPAR α (mouse)	NR1C1		X		X	
PPAR α (rat)	NR1C1		X		X	
PPAR β/δ (human)	NR1C2	X	X	X	X	X
PPAR β/δ (mouse)	NR1C2		X		X	
PPAR β/δ (rat)	NR1C2		X		X	
PPAR γ (human)	NR1C3	X	X	X	X	X
PPAR γ (mouse)	NR1C3	X	X		X	
PPAR γ (rat)	NR1C3		X		X	
Rev-Erb α	NR1D1	X	X	X		
Rev-Erb β	NR1D2	X	X	X		
ROR α	NR1F1	X	X	X		

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Clone full length	Clone LBD	Y2H	Gal4	FRET
ROR β	NR1F2	X	X	X		
ROR γ	NR1F3	X	X	X		
LXR β	NR1H2	X	X	X	X	X
LXR α	NR1H3	X	X	X	X	X
FXR (human)	NR1H4	X	X		X	X
FXR (mouse)	NR1H4	X	X		X	X
FXR (rat)	NR1H4	X	X		X	X
VDR	NR1I1	X	X	X	X	X
PXR (human)	NR1I2	X	X	X	X	X
PXR (mouse)	NR1I2	X	X		X	
PXR (rat)	NR1I2	X	X		X	
CAR (human)	NR1I3	X	X	X	X	
CAR (mouse)	NR1I3	X	X		X	
CAR (rat)	NR1I3	X	X		X	
HNF4 α	NR2A1	X	X	X		
HNF4 γ	NR2A2	X		X		
RXR α	NR2B1	X	X	X	X	X
RXR β	NR2B2	X	X	X	X	
RXR γ	NR2B3	X	X	X	X	
TR2	NR2C1	X	X			
TR4	NR2C2	X	X			
TLX	NR2E1	X	X			
PNR	NR2E3	X				
COUP-TF1	NR2F1	X	X			
COUP-TF2	NR2F2	X		X		
ER α	NR3A1	X	X	X	X	
ER β	NR3A2	X	X	X	X	X
ERR α	NR3B1	X	X	X	X	X
ERR β	NR3B2	X	X		X	
ERR γ	NR3B3	X	X	X	X	X

Nuclear Receptor; Trivial Name	Nuclear Receptor; Systematic Name	Clone full length	Clone LBD	Y2H	Gal4	FRET
GR	NR3C1	X	X		X	
MR	NR3C2	X	X	X	X	
PR	NR3C3	X	X	X	X	
AR	NR3C4	X	X	X	X	
NURR77	NR4A1	X	X			
NURR1	NR4A2	X	X		X	X
NOR1	NR4A3	X	X			
SF-1	NR5A1	X	X			
LRH-1	NR5A2	X	X	X		
GCNF1	NR6A1	X	X			