

Datasheet of GLuc-ON™ PPAR Transcriptional Response Element (TRE) Clone (TR112)

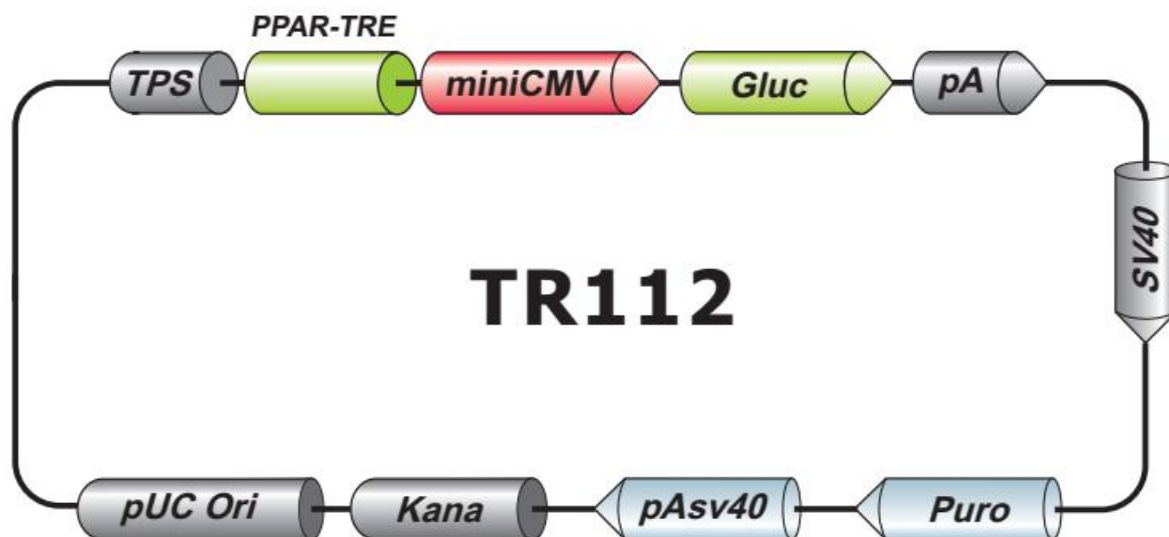


Figure 1. GLuc-ON™ PPAR Transcriptional Response Element (TRE) Clone (TR112)

Cat. No	TR112
Description	GeneCopeia 's GLuc-ON™ PPAR transcriptional response element (TRE) clone enables analysis of transcriptional activity of peroxisome proliferator-activated receptors (PPARs). PPARs are a family of three nucleus-localized transcription factors-PPAR α , PPAR β / δ , and PPAR γ that lead to peroxisome proliferation in response to lipid ligands. PPARs are important players in treatments of various diseases, such as obesity and diabetes. The PPAR transcriptional TRE clone contains a minimal promoter and tandem repeats of the PPAR transcriptional response element upstream of a secreted Gaussia luciferase reporter gene. The number of response elements, as well as the intervening sequence between the elements has been optimized to maximize the sensitivity and signal to noise ratio.
Delivery	500ng/ μ L \times 40 μ L
Storage Conditions	-20°C
QC	<ul style="list-style-type: none"> • Functional validation in common cell line • Full sequence verification • Restriction Digestion

Validation Data

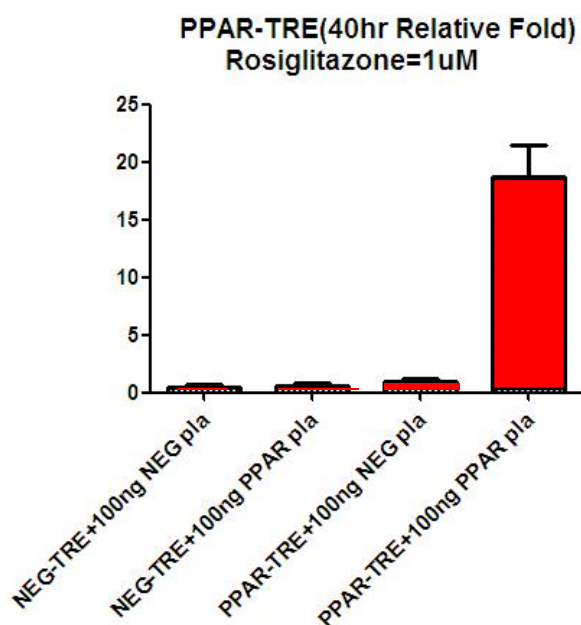


Figure 2. Activation of the GLuc-ON™ PPAR TRE by exogenous expression of PPAR. 293T cells were co-transfected with PPAR TRE clone + PPAR expression clone, PPAR TRE clone + negative expression clone, negative control clone + PPAR expression clone, or negative TRE clone + negative expression clone. Transfected cells were incubated for 40 hours. A Gaussia Luciferase assay was performed, and transcriptional response activity values are expressed as luminance fold activation.

Restriction Enzyme Information for TR112

Table 1. Restriction Enzymes That Do Not Cleave TR112

AfeI	AgeI	AscI	BbvCI	BlpI	BsaAI	BstXI	BstZ17I
Bsu36I	BtrI	EcoRV	FspI	MluI	NdeI	PacI	PmeI
PmlI	PpuMI	PvuII	SanDI	SapI	SbfI	SgrAI	SnaBI
SpeI	SrfI	Swal					

Table 2. Restriction Enzymes That Cleave TR112 Once

AarI	619 AasI	4678 Acc65I	663 AccI	1343 AccIII	2319 AclI	209 Acul	4238 Adel	2777
AflIII	343 AflIII	4780 AhdI	1308 AloI	1033 Aor13HI	2319 AseI	3861 AsiSI	3662 Asp718I	663
AspA2I	2129 AspEI	1308 AspI	2248 AssI	554 AsuII	458 AvrII	2129 BaeI	2887 BamHI	993
BauI	4607 BciVI	4582 BclI	2180 BfrI	343 BfuI	4582 BlnI	2129 BmcAI	554 BmeRI	1308
Bpu14I	458 Bsa29I	547 BsaBI	1036 BsaI	2680 Bse8I	1036 BseAI	2319 BseCI	547 BseJI	1036
BsePI	2661 BseRI	2125 BshVI	547 BsiWI	2262 Bso31I	2680 Bsp119I	458 Bsp13I	2319 BspDI	547
BspEI	2319 BspHI	3186 BspT104I	458 BspTI	343 BssHII	2661 BssSI	4607 Bst2BI	4607 BstAFI	343
BstBI	458 BstEII	2340 BstENI	3574 BstPI	2340 Bsu15I	547 BsuI	4582 CciI	3186 CciNI	1565
Cfr9I	2150 ClaI	547 CpoI	2322 CspI	2322 DraI	3086 DraIII	2777 DrdI	4678 DriI	1308
DseDI	4678 Eam1105I	1308 Ecl136II	672 Eco31I	2680 Eco53kl	672 Eco57I	4238 Eco91I	2340 EcoICRI	672
EcoNI	3574 EcoO65I	2340 EcoRI	483 FbaI	2180 FblI	1343 FseI	2884 HindIII	917 HpaI	3025
Kpn2I	2319 KpnI	667 KroI	2880 Ksp22I	2180 KspAI	3025 MfeI	3034 MroI	2319 MroNI	2880
MspCI	343 MunI	3034 NaeI	2882 NgoMIV	2880 NotI	1565 NspV	458 PaeR7I	1571 PagI	3186
PasI	2255 Paul	2661 PciI	4780 PdiI	2882 Pfl23II	2262 PflFI	2248 PfoI	2681 PscI	4780
PshBI	3861 Psp124BI	674 Psp1406I	209 PspEI	2340 PspLI	2262 PspXI	1571 PstI	3127 PstII	2248
PteI	2661 RcaI	3186 RgaI	3662 RglI	2884 Rsr2I	2322 RsrII	2322 SacI	674 Sall	1342
Scal	554 SfaAI	3662 Sfr274I	1571 SfuI	458 SgfI	3662 Slal	1571 Smal	2152 SspI	3587
SstI	674 StrI	1571 TspMI	2150 Tth111I	2248 Vha464I	343 VspI	3861 XagI	3574 XbaI	1583
XcmI	1804 XhoI	1571 XmaI	2150 XmaII	2129 XmiI	1343 Zrml	554		

