

Product datasheet for **RG231157**

Cyclophilin E (PPIE) (NM_001195007) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclophilin E (PPIE) (NM_001195007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPIE
Synonyms:	CYP-33; CYP33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231157 representing NM_001195007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACCACCAAGCGCGTCTTGTACGTGGGTGGACTGGCAGAGGAAGTGGACGACAAAGTTCTTCATG
CTGCGTTCATTCCTTTGGAGACATCACAGATATTCAGATTCCTCTGGATTATGAAACAGAAAAGCACCG
AGGATTTGCTTTTGTGAATTTGAGTTGGCAGAGGATGCTGCAGCAGCTATCGACAACATGAATGAATCT
GAGCTTTTGGACGTACAATTCGTGTCAATTTGGCCAAACCAATGAGAATTAAGGAAGGCTCTCCAGGC
CAGTTTGGTCAGATGATGACTGGTTGAAGAAGTTTCTGGGAAGACGCTTGAAGAGAATAAAGAGGAAGA
AGGGTCAGAGCCTCCCAAAGCAGAGACCCAGGAGGGAGAGCCCATTTGCTAAAAGGCCCGCTCAAATCCT
CAGGTGTACATGGACATCAAGATTGGGAACAAGCCGGCTGGCCGCATCCAGATGCTCCTGCGTTCTGATG
TCGTGCCCATGACAGCAGAGAATTTCCGCTGCCTGTGCACTCATGAAAAGGGCTTTGGCTTTAAGGGAAG
CAGCTTCCACCGCATCATCCCCAGTTCATGTGCCAGGGCGGTGATTTCAAAACCACAATGGCACTGGG
GGCAAGTCCATCTATGGGAAGAAGTTCGATGATGAAAACTTTATCCTCAAGCATAACGGGACCAGGTCTAC
TATCCATGGCCAACTCTGGCCAAACACCAATGGCTCTCAGTTCTTCTGACATGTGACAAGACAGACTG
GCTGGATGGCAAGCATGTGGTGTGGAGAGGTCACCGAAGGCCTAGATGCTTTGCGGCAAATGAGGTT
GCCCCAGATACCAAGGCATCAAAGCCAGGGGATCCAGAAAAACAAAGATGGCCAAGAGAGAACTGGG
GAAAAAGCCAAAAGGTTGAGAGCCACACCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231157 representing NM_001195007
 Red=Cloning site Green=Tags(s)

MATTKRVLYVGGLAEEVDDKVLHAAFIPFGDITDIQIPLDYETEKHRGF AFVEFELAEDAAAAIDNMNES
 ELFGRTIRVNLAKPMRIKEGSSRPVWSDDDLKFKSGKLEENKEEEGSEPPKAETQEGEPIAKKARSNP
 QVYMDIKIGNKPAGRIQMLLRSDVVPMTAENFRCLCTHEKGF GFKGSSFHRIIPQFMCQGGDFTNHNGTG
 GKSIYGKKFDDEFILKHTGPGLLSMANS GPNTNGSQFFLTCDKTDWLDGKHVVFGEVTEGLDVL RQIEV
 APDTKASKARGSRKNKDGQERNWGSQKVESHTI

TRTRPLE - GFP Tag - V

Restriction Sites:

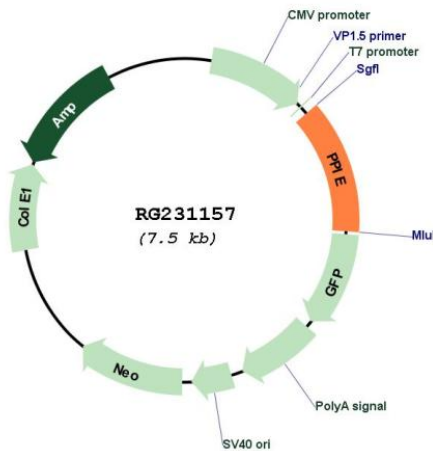
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001195007

ORF Size: 942 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001195007.1 , NP_001181936.1
RefSeq Size:	1271 bp
RefSeq ORF:	945 bp
Locus ID:	10450
UniProt ID:	Q9UNP9
Cytogenetics:	1p34.2
Protein Families:	Transcription Factors
Protein Pathways:	Spliceosome
Gene Summary:	The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein contains a highly conserved cyclophilin (CYP) domain as well as an RNA-binding domain. It was shown to possess PPIase and protein folding activities, and it also exhibits RNA-binding activity. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 1, has been identified. [provided by RefSeq, Aug 2010]