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Product datasheet for RC214435

Cyclophilin E (PPIE) (NM_006112) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyclophilin E (PPIE) (NM_006112) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyclophilin E
Synonyms:	CYP-33; CYP33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC214435 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCACCAAGCGCGTCTTGTACGTGGGTGGACTGGCAGAGGAAGTGGACGACAAAGTTCTTCATG
CTGCGTTCATTCCTTTTGGAGACATCACAGATATTCAGATTCCTCTGGATTATGAAACAGAAAAGCACCG
AGGATTTGCTTTTGTTGAATTTGAGTTGGCAGAGGATGCTGCAGCAGCTATCGACAACATGAATGAATCT
GAGCTTTTTGGACGTACAATTCGTGTCAATTTGGCCAAACCAATGAGAATTAAGGAAGGCTCTTCCAGGC
CAGTTTGGTCAGATGATGACTGGTTGAAGAAGTTTTCTGGGAAGACGCTTGAAGAGAATAAAGAGGAAGA
AGGGTCAGAGCCTCCCAAAGCAGAGACCCAGGAGGGAGAGCCCATTGCTAAAAAGGCCCGCTCAAATCCT
CAGGTGTACATGGACATCAAGATTGGGAACAAGCCGGCTGGCCGCATCCAGATGCTCCTGCGTTCTGATG
TCGTGCCCATGACAGCAGAGAATTTCCGCTGCCTGTGCACTCATGAAAAGGGCTTTGGCTTTAAGGGAAG
CAGCTTCCACCGCATCATCCCCCAGTTCATGTGCCAGGGCGGTGATTTCACAAACCACAATGGCACTGGG
GGCAAGTCCATCTATGGGAAGAAGTTCGATGATGAAAACTTTATCCTCAAGCATACGGGACCAGGTCTAC
TATCCATGGCCAACTCTGGCCCAAACACCAATGGCTCTCAGTTCTTCCTGACATGTGACAAGACAGACTG
GCTGGATGGCAAGCATGTGGTGTTTGGAGAGGTCACCGAAGGCCTAGATGTCTTGCGGCAAATTGAGGCC
CAGGGCAGCAAGGACGGGAAGCCAAAGCAGAAGGTGATCATCGCCGACTGTGGGGAGTACGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC214435 protein sequence
Red=Cloning site Green=Tags(s)

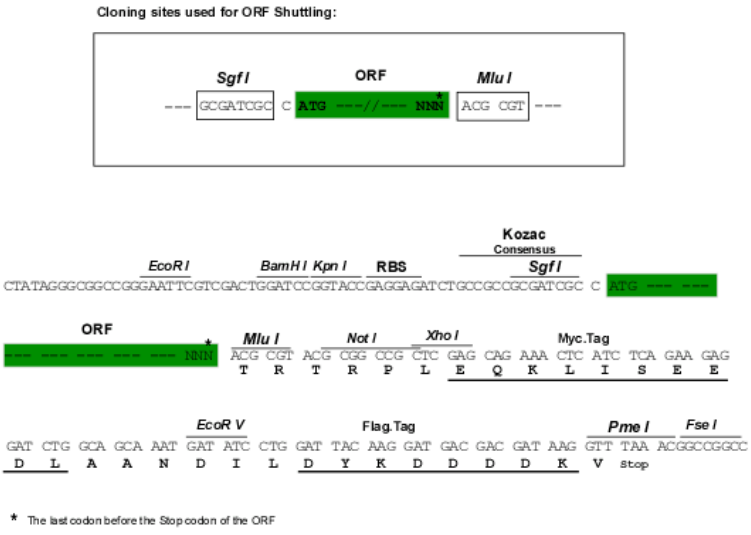
MATTKRVLYVGGLAEEVDDKVLHAAFIPFGDITDIQIPLDYETEKHRGFAFVEFELAEDAAAAIDNMNES
ELFGRTIRVNLAKPMRIKEGSSRPVWSDDDWLKKFSGKTLEENKEEEGSEPPKAETQEGEPIAKKARSNP
QVYMDIKIGNKPAGRIQMLLRSDVVPMTAENFRCLCTHEKGFGFKGSSFHRIIPQFMCQGGDFTNHNGTG
GKSIYGKKFDDENFILKHTGPGLLSMANSGPNTNGSQFFLTCDKTDWLDGKHVVFGEVTEGLDVLRQIEA
QGSKDGKPKQKVIIADCGEYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6428_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006112

ORF Size: 903 bp

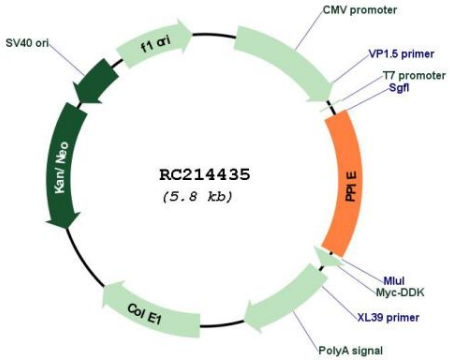
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

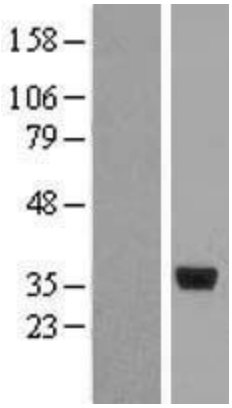
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	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_006112.4
RefSeq Size:	4392 bp
RefSeq ORF:	906 bp
Locus ID:	10450
UniProt ID:	Q9UNP9
Cytogenetics:	1p34.2
Domains:	RRM, pro_isomerase
Protein Families:	Transcription Factors
Protein Pathways:	Spliceosome
MW:	33.4 kDa
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]

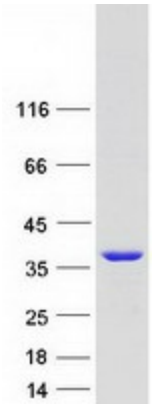
Product images:



Circular map for RC214435



Western blot validation of overexpression lysate (Cat# [LY416859]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214435 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PPIE protein (Cat# [TP314435]). The protein was produced from HEK293T cells transfected with PPIE cDNA clone (Cat# RC214435) using MegaTran 2.0 (Cat# [TT210002]).