

Product datasheet for **RG202157**

REEP4 (NM_025232) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	REEP4
Synonyms:	C8orf20; PP432; Yip2c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202157 representing NM_025232
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGTCTCGGATGATCTGTGCGCTGGTGGTGTGTTGGGATGCTGTGTCCAGCTTATGCTTCCT
ATAAGGCTGTGAAGACCAAGAACATTCGTGAATATGTGCGGTGGATGATGACTGGATTGTTTTGCACT
CTTCATGGCAGCAGAGATCGTTACAGACATTTTATCTCCTGGTTCCTTTCTACTATGAGATCAAGATG
GCCTTCGTGCTGTGGTGTCTCACCTACCAAGGGCGCCAGCCTGCTTTACCGCAAGTTGTCCACC
CGTCCCTGTCCCGCATGAGAAGGAGATCGACGCGTACATCGTGCAGGCCAAGGAGCGCAGCTACGAGAC
CGTGCTCAGCTTCGGGAAGCGGGGCTCAACATTGCCGCTCCGCTGCTGTGCAGGCTGCCACCAAGAGT
CAGGGGGCGCTGGCCGGCAGGCTGCGGAGCTTCTCCATGCAGGACCTGCGCTCCATCTCTGACGCACCTG
CCCCTGCCTACCATGACCCCTCTACCTGGAGGACCAGGTGTCCACCGGAGGCCACCCATTGGGTACCG
GGCCGGGGGCTGCAAGACAGCGACACCGAGGATGAGTGTTGGTCAGATACTGAGGCAGTCCCCGGGCG
CCAGCCCGGCCCCGAGAGAAGCCCCAATCCGCAGCCAGAGCCTGCGTGTGGTCAAGAGGAAGCCACCGG
TGCGGGAGGGCACCTCGCGCTCCCTGAAGGTTTCGGACGAGGAAAAGACTGTGCCCTCAGACGTGGACAG
C

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG202157 representing NM_025232

Red=Cloning site Green=Tags(s)

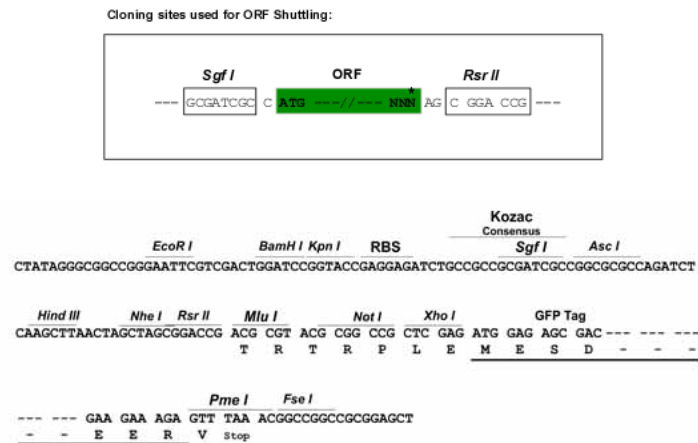
MVSWMICRLVVLVFGMLCPAYASYKAVKTKNIREYVRWMMYWIVFALFMAAEIVTDIFISWFPFYIEIKM
AFVLWLLSPYTKGASLLYRK FVHPSLSRHEKEIDAYIVQAKERSYETVLSFGKRGLNIAASA AVQAATKS
QGALAGRLRSFSMDLRSISDAPAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEAVPRA
PARPREKPLIRSQSLRVVKKRPPVREGTSRSLKVRTRKKTVPDSDVS

SGPTRRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_025232

ORF Size:

771 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:

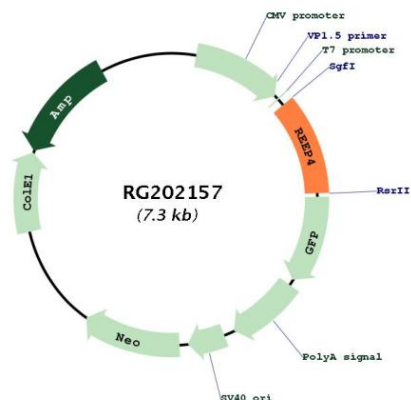
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_025232.4</u>
RefSeq Size:	1731 bp
RefSeq ORF:	774 bp
Locus ID:	80346
UniProt ID:	<u>Q9H6H4</u>
Cytogenetics:	8p21.3
Domains:	TB2_DPI_HVA22
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Microtubule-binding protein required to ensure proper cell division and nuclear envelope reassembly by sequestering the endoplasmic reticulum away from chromosomes during mitosis. Probably acts by clearing the endoplasmic reticulum membrane from metaphase chromosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202157