

Product datasheet for **RG209615**

REEP1 (NM_022912) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: REEP1 (NM_022912) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: REEP1
Synonyms: C2orf23; HMN5B; SPG31; Yip2a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209615 representing NM_022912
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGCATGGATCATCTCCAGGCTGGTGGTGCTTATATTTGGCACCCTTTACCCTGCGTATTATTCCT
 ACAAGGCTGTGAAATCAAAGGACATTAAGGAATATGTCAAATGGATGATGACTGGATTATTTGCACT
 TTTCACCACAGCAGACATTACAGACATCTTCCTTTGTTGGTTTCCATTCTATTATGAACAAAAATA
 GCATTTGTAGCCTGGCTGCTGTCTCCCTACACAAAAGGCTCCAGCCTCCTGTACAGGAAGTTGTACATC
 CCACACTATCTTCAAAGAAAAGGAAATCGATGATTGTCTGGTCCAAGCAAAGACCGAAGTTACGATGC
 CCTTGTGCACTTCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCTGTGATGGCTGCTTCAAAGGGA
 CAGGGTGCCTTATCGGAGAGACTGCGGAGCTTCAGCATGCAGGACCTCACCACCATCAGGGGAGACGGCG
 CCCCTGCTCCCTCGGGCCCCCACCACCGGGTCTGGGCGGGCCAGCGGCAAACCGGCCAGCCTAAGAT
 GTCCAGGAGTGCTTCTGAGAGCGCTAGCAGCTCAGGCACCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209615 representing NM_022912
 Red=Cloning site Green=Tags(s)

MVSWIISRLVVLIFGTLYPAYYSYKAVKSKDIKEYVKWMMYWIIFALFTTAETFTDIFLCWFPFYELKI
 AFWALLSPYTKGSSLLYRKFVHPTLSSKEKEIDDCLVQAKDRSYDALVHFGKRGLNVAATAAVMAASKG
 QGALSERLRSFSMQDLTIRGDGAPAPSGPPPPGSRASGKHGQPKMSRSASESASSSGTA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

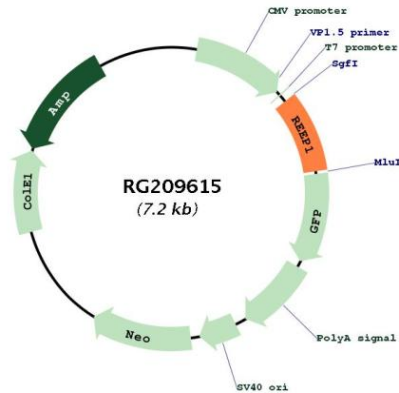

ACCN:	NM_022912
ORF Size:	603 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_022912.1 , NP_075063.1
RefSeq Size:	3856 bp
RefSeq ORF:	606 bp
Locus ID:	65055
UniProt ID:	Q9H902
Cytogenetics:	2p11.2

Domains: TB2_DP1_HVA22

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a mitochondrial protein that functions to enhance the cell surface expression of odorant receptors. Mutations in this gene cause spastic paraplegia autosomal dominant type 31, a neurodegenerative disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG209615