

## Product datasheet for RC228141

### REEP1 (NM\_001164730) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** REEP1 (NM\_001164730) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** REEP1  
**Synonyms:** C2orf23; HMN5B; SPG31; Yip2a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC228141 representing NM\_001164730  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGAAAGTGCTGAGCAACGGACAGACTGAAGAGGTTAGGTCTGGATCCAGGCTTATATTTGGCACCC  
 TTTACCTGCGTATTATTCCTACAAGGCTGTGAAATCAAAGGACATTAAGGAATATGTCAAATGGATGAT  
 GTACTGGATTATTTGCACTTTTCACCACAGCAGAGACATTACAGACATCTTCCTTTGTTGGTTTCCA  
 TTCTATTATGAACTAAAAATAGCATTGTAGCCTGGCTGCTGTCCCTACACAAAAGGCTCCAGCCTCC  
 TGTACAGGAAGTTGTACATCCCACGCTATCTTCAAAGAAAAGGAAATCGATGATTGTCTGGTCCAAGC  
 AAAAGACCGAAGTTACGATGCCCTTGTGCACTTCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCT  
 GTGATGGCTGCTTCCAAGGGACAGGGTGCCTTATCGGAGAGACTGCGGAGCTTCAGCATGCAGGACCTCA  
 CCACCATCAGGGGAGACGGCGCCCTGCTCCCTCGGGCCCCACCACCGGGGTCTGGGCGGGCCAGCGG  
 CAAACACGGCCAGCCTAAGATGTCCAGGAGTGCTTCTGAGAGCGCTAGCAGCTCAGGCACCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228141 representing NM\_001164730  
 Red=Cloning site Green=Tags(s)

MQKVLNQGTEEVRSRSLIFGTLYPAYYSYKAVKSKDIKEYVKMMYWIIFALFTTAETFTDIFLCWFP  
 FYYELKIAFVAVLLSPYTKGSSLLYRKFVHPTLSSKEKEIDDCLVQAKDRSYDALVHFGKRGLNVAATAA  
 VMAASKQGALSERLRSFSMQDLTTRGDGAPAPSGPPPPGSGRASGKHGQPKMSRSASESASSSGTA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

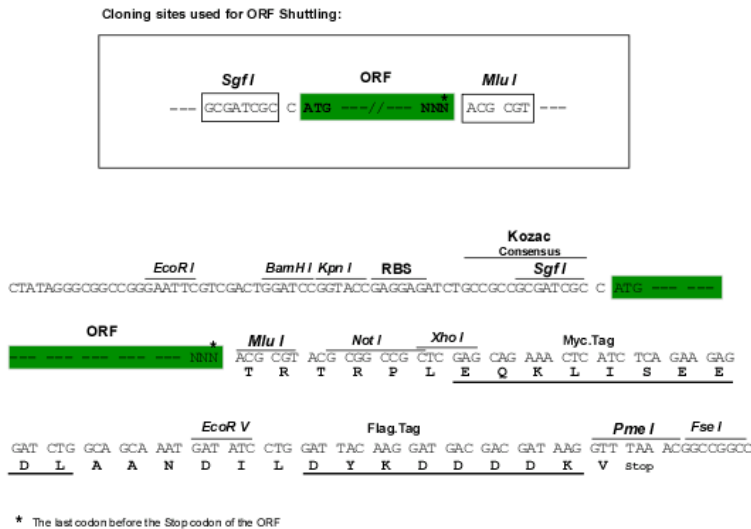


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Chromatograms: [https://cdn.origene.com/chromatograms/ja3036\\_e07.zip](https://cdn.origene.com/chromatograms/ja3036_e07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001164730

ORF Size: 624 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001164730.2](#)

**RefSeq Size:** 3752 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 65055

**UniProt ID:** [Q9H902](#)

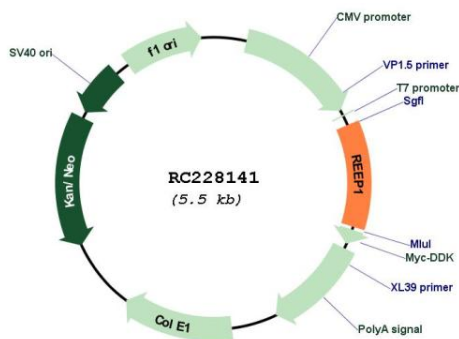
**Cytogenetics:** 2p11.2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 23 kDa

**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 RC228141