

## Product datasheet for RC228114

### REEP1 (NM\_001164731) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** REEP1 (NM\_001164731) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** REEP1  
**Synonyms:** C2orf23; HMN5B; SPG31; Yip2a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC228114 representing NM\_001164731  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATCATCTCCAGGCTGGTGGTGTCAAATGGATGATGTACTGGATTATATTTGCACTTTTCACCACAG  
 CAGAGACATTCACAGACATCTTCCTTTGTTGGTTCCATTCTATTATGAATAAAAATAGCATTTGTAGC  
 CTGGCTGTCTCCCTACACAAAAGGCTCCAGCCTCCTGTACAGGAAGTTTGATACATCCCACGCTATCT  
 TCAAAAGAAAAGGAAATCGATGATTGTCTGGTCCAAGCAAAGACCGAAGTTACGATGCCCTTGTGCACT  
 TCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCTGTGATGGCTGCTTCAAGGGACAGGGTGCCTT  
 ATCGGAGAGACTGCGGAGCTTCAAGCATGCAGGACCTCACCACCATCAGGGGAGACGGCGCCCTGTCCC  
 TCGGGCCCCCACCACGGGGTCTGGCGGGCCAGCGGCAAACACGGCCAGCCTAAGATGTCCAGGAGTG  
 CTTCTGAGAGCGCTAGCAGCTCAGGCACCGCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228114 representing NM\_001164731  
 Red=Cloning site Green=Tags(s)

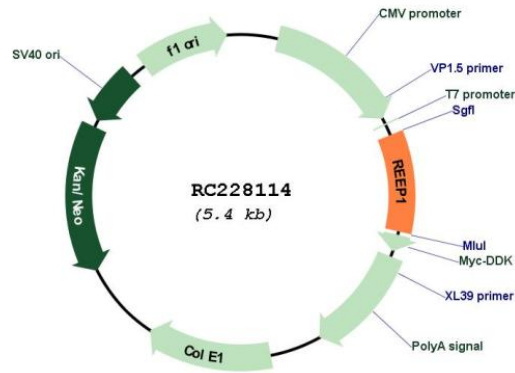
MDHLQAGGVKMMYWIIFALFTTAETFTDIFLCWFPFYELKIAFVAVLLSPYTKGSSLLYRKFVHPTLS  
 SKEKEIDDCLVQAKDRSYDALVHFGKRGLNVAATAAVMAASKGQALSERLRSFSMQDLTTRIGDGAPAP  
 SGPPPPGSGRASGKHGQPKMSRSASESASSSGTA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**

**ACCN:** NM\_001164731

**ORF Size:** 522 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001164731.2</a></u>
<b>RefSeq ORF:</b>	525 bp
<b>Locus ID:</b>	65055
<b>UniProt ID:</b>	<u><a href="#">Q9H902</a></u>
<b>Cytogenetics:</b>	2p11.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	18.8 kDa
<b>Gene Summary:</b>	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]