

## Product datasheet for **RG228114**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** REEP1 (NM\_001164731) 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:** >RG228114 representing NM\_001164731  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCATCTCCAGGCTGGTGGTGTCAAATGGATGATGTACTGGATTATATTTGCACTTTTCACCACAG  
CAGAGACATTCACAGACATCTTCCTTTGTTGGTTCCATTCTATTATGAATAAAAATAGCATTTGTAGC  
CTGGCTGTCTCCCTACACAAAAGGCTCCAGCCTCCTGTACAGGAAGTTTGTACATCCCACGCTATCT  
TCAAAAAGAAAAGGAAATCGATGATTGTCTGGTCCAAGCAAAGACCGAAGTTACGATGCCCTTGTGCACT  
TCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCTGTGATGGCTGCTCCAAGGGACAGGGTGCCTT  
ATCGGAGAGACTGCGGAGCTTACAGATGCAGGACCTCACCACCATCAGGGGAGACGGCGCCCTGCTCCC  
TCGGGCCCCCACCACCGGGTCTGGGCGGCCAGCGGCAAACACGGCCAGCCTAAGATGTCCAGGAGTG  
CTTCTGAGAGCGCTAGCAGCTCAGGCACCGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228114 representing NM\_001164731  
Red=Cloning site Green=Tags(s)

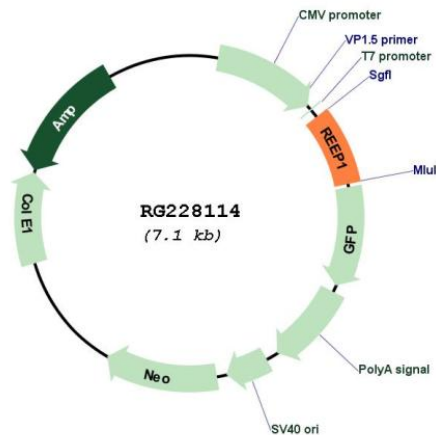
MDHLQAGGVKWMYWIIFALFTTAETFTDIFLCWFPFYELKIAFVAWLLSPYTKGSSLLYRKFVHPTLS  
SKEKEIDDCLVQAKDRSYDALVHFGKRGRLNVAATAAVMAASKGQALSERLRSFSMQDLTTRIGDGAPAP  
SGPPPPGSGRASGKHGQPKMSRSASESASSSGTA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-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>NM_001164731.2</u>
<b>RefSeq Size:</b>	3795 bp
<b>RefSeq ORF:</b>	525 bp
<b>Locus ID:</b>	65055
<b>UniProt ID:</b>	<u>Q9H902</u>
<b>Cytogenetics:</b>	2p11.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<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]