

## Product datasheet for **SC112404**

### REEP1 (NM\_022912) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	REEP1 (NM_022912) Human Untagged Clone
Tag:	Tag Free
Symbol:	REEP1
Synonyms:	C2orf23; HMN5B; SPG31; Yip2a
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112404 sequence for NM_022912 edited (data generated by NextGen Sequencing) ATGGTGCATGGATCATCTCCAGGCTGGTGGTGCCTTATATTTGGCACCCTTTACCCTGCG TATTATTCCTACAAGGCTGTGAAATCAAAGGACATTAAGGAATATGTCAAATGGATGATG TACTGGATTATATTTGCACTTTTCACCACAGCAGAGACATTCACAGACATCTTCCTTTGT TGGTTTCCATTCTATTATGAACTAAAAATAGCATTGTAGCCTGGCTGCTGTCTCCCTAC ACAAAAGGCTCCAGCCTCCTGTACAGGAAGTTGTACATCCCACACTATCTTCAAAGAA AAGGAAATCGATGATTGTCTGGTCCAAGCAAAGACCGAAGTTACGATGCCCTTGTGCAC TTCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCTGTGATGGCTGCTTCCAAGGA CAGGGTGCCTTATCGGAGAGACTGCGGAGCTTCAGCATGCAGGACCTCACCACCATCAGG GGAGACGGCGCCCTGCTCCCTCGGGCCCCACCACCGGGTCTGGGCGGGCCAGCGGC AAACACGCCAGCCTAAGATGTCCAGGAGTGCTTCTGAGAGCGCTAGCAGCTCAGGCACC GCCTAG  Clone variation with respect to NM_022912.2 285 g=>a



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_022912 unedited</p> <pre>AATTTGTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGAACGCCGCAGC AGCCCCGCGCCGCCGAGCCTAGCCGAGCCGCGCCGCCGGCCCTCGCCCGCCGCTGC CCGCCATGGTGTATGGATCATCTCCAGGCTGGTGGTGTATATTTGGCACCCCTTACC CTGCGTATTATCCTACAAGGCTGTGAAATCAAAGGACATTAAGGAATATGTCAAATGGA TGATGTACTGGATTATTTGCACTTTTCACCACAGCAGAGATTACAGACATCTTCC TTTGTGGTTTTCCATTCTATTATGAACTAAAAATAGCATTGTAGCCTGGCTGTCTC CCTACACAAAAGGCTCCAGCCTCCTGTACAGGAAGTTGTACATCCACACTATCTTCAA AAGAAAAGGAAATCGATGATTGTCTGGTCCAAGCAAAGACCGAAGTTACGATGCCCTTG TGCACTTCGGGAAGCGGGCTTGAACGTGGCCGCCACAGCGGCTGTGATGGCTGCTTCCA AGGGACAGGGTGCCTTATCGGAGAGACTGCGGAGCTTCAGCATGCAGGACCTCACCACCA TCAGGGGAGACGGCGCCCTGCTCCCTCGGGCCCCCAACCACCGGGGTCTGGCGGGCCA GCGGCAAACACGGCCAGCCTAAGATGTCCAGGAGTCTTCTGAGAGCGCTAGCAGCTCAN GCACCGNNCTAAATCCTTCGATCTCGCTTCAGGAAGAAAATACCTCATCCTCGGCCACCG AAACCCCGTGAGTGAGATGAGCCAACAGCACCGGATCCACANATAGTTTCTTCTCTCGCT TAAGAGCTATTCATACATANAATCGCAGCCTGGTGTCTTTGGATGTGCAACT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_022912 unedited</p> <pre>CCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGCATTCGTTTCTGATA ATTCTGGTACTTCCAACAAACAGGTAATACATTTTAAAGAGTATATTCTTCTTCTGTC TGGAACTACTCAATGAGCACAAAAGAAAACATTTTCTGTCTTCTTAAACAGATTTAGGTAT TGGTGGGTGTGGGCACAGAACATGAGCAAACAGCTTCTGTTTATCCTCTCAGCCACAAA TTCGCTTTTAGGTATATTTTCTATACCCTTTTCAAATTACAAAATCACCTTCAGAGGA ACTATGGTAGATGGGATCCAATATGCATATCTGGCAACAATCAGCTTCAAATCAAACC CTTTCTGGGGTGGCTAAGATCCAGCTAATGTGTATCAGCAAAGGCCTCTAATATGTGTT TGCGTAGTAATGGAACAGTTTTTAATTGGGCCTGTTTATAGTTGACTGACAGTAAGTTCT ATATGGTATATAACACTAATTCTCTAGTCTTCTGGGCATATCTACGAACAAATACAATCC AAATATTATGAGTAACTGGGTTGTGACCACTGCATGCATTACACTGAAAGAAACACCAAC TCGAAGCACAAATATATTATTCTTATATTTTCGGCTCAGCTCTCAGTGGGGAGAGCAGCTA CCTCGGGACCACATGCCATTTAAACCAGATTCTTTTCAAATAAAATCTCAATCTAAGTG GAAAGCCCCCTCAGAGGATGCCCTTATCCCCTACTAACAATCCAGGCTTGATAAAACGTC TGATAGGCCTGTAGTGCCCATGAGTATGAGTCTGCTGTTTCATTCTGCACAGCCAAGAGG GGACAGAAAGTGTGAGCCAGGTGCTCCTGGGTCTGACCAACAGTCTAACCATGAAAACCT CAGCCTCAACCATTCTAGACCCACCATTGATTGTACCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022912
<b>Insert Size:</b>	2820 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**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\\_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]  
Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a distinct and shorter N-terminus, compared to isoform 1.