

## Product datasheet for **SC315411**

### CEMP1 (NM\_001048212) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CEMP1
Synonyms:	CP-23; CP23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315411 representing NM_001048212. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCACATCAAGCACTGACAGCCAGCAAGCTGGGCACAGGCGATGCTCAACCTCTAACACATCGGCT
GAGAACCTCACCTGCCTCTCCCTGCCTGGGAGCCCTGGCAAGACAGCTCCTCTCCAGGCCAGCACAG
GCAGGCGCTGGACAGCCACTTCTAAGGGGTGCGCGGCCGTCAGGCAGAGGTGGGTATCCCTGCACCT
CACACCTCTCAGGAGGTGAGGATCCACATCCGTCGCTGCTTTCTGGGCTGCCCTGGGGCTTGTGGG
CTGAGATCAACCCCTTGTGCCCTGCCAGGCCCTCCCTCAGGCGAGGCCCTGCCAGGCAGGTGGTTC
TTCCCTGGCTGTTCCCTTCCAACAGGTGGGGCCAGACCATCTATCTCTTTGGACCTGGAGACATTTC
CTTAAGTGGCTTTGACGAGAGGGAAGAGAAGAGTGGCAGAGCCAGGCGGTACCTCCTGTGCCAGG
ACAGCACCTGTAAGCAAGGGGAAGGGAGCCACCCACCCAGAACTCAAATGGAGAGAAAGTCAAGACA
ATCACCCCTGACGTGGGGCTGCACCAATCCCTGACGTCTGACCCCACTGTGGCTGTCTCAGAGCCAAG
AGGGCTCCAGAAGCCACCCGCTCGAAGCTGTTCAAGGAGCCTCACGGCCCGTGTGGCCACATGGGT
GTGTGCCAGGGCCAAAGGGACACAGAAGATGGCAGGATGACACTAATGGGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001048212
Insert Size:	744 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001048212.3</a></u>
<b>RefSeq Size:</b>	1374 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	752014
<b>UniProt ID:</b>	<u><a href="#">Q6PRD7</a></u>
<b>Cytogenetics:</b>	16p13.3
<b>MW:</b>	26 kDa
<b>Gene Summary:</b>	May play a role in development of the periodontium which surrounds and supports the teeth by promoting the differentiation of multi-potent cells from the periodontal ligament into cementoblasts to form the cementum (PubMed:21929512, PubMed:17509525, PubMed:21465469). Binds hydroxyapatite and may promote the biomineralization of the cementum (PubMed:19393626). Also promotes cell proliferation (PubMed:17509525, PubMed:21929512, PubMed:26011628).[UniProtKB/Swiss-Prot Function]