

Product datasheet for **RG215622**

CEMP1 (NM_001048212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CEMP1
Synonyms:	CP-23; CP23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215622 representing NM_001048212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCACATCAAGCACTGACAGCCAGCAAGCTGGGCACAGGCGATGCTCAACCTCTAACACATCGGCTG
AGAACCTCACCTGCCTCTCCCTGCCTGGGAGCCCTGGCAAGACAGCTCCTCTCCAGGCCAGCACAGGC
AGGCGCTGGACAGCCACTTCTAAGGGGTGCGCGGCCGTCAAGGCAGAGGTGGGTATCCCTGCACCTCAC
ACCTCTCAGGAGGTCAGGATCCACATCCGTCGCCTGCTTCTGGGCTGCCCTGGGGCTTGTGGGCTGA
GATCAACCCCTTGTGCCCTGCCCCAGGCCCTCCCTCAGGCGAGGCCCTGCCAGGCAGGTGGTTCTTCCC
TGGCTGTTCCCTTCCAACAGGTGGGGCCAGACCATCCTATCTCTTGGACCTGGAGACATTTCTTAAC
TGGGCTTTCAGCAGAGGGAAGAGAACAGTGGCAGAGCCAGGCGCGTACCTCCTGTGCCAGGACAGCAC
CTGTAAGCAAGGGGAAGGAGCCACCCACCCAGAACTCAAATGGAGAGAAAGTCAAGACAATCACCCC
TGACGTGGGGCTGACCAATCCCTGACGTCTGACCCCACTGTGGCTGTCTCAGAGCCAAGAGGGCTCCA
GAAGCCACCCGCCTCGAAGCTGTTCAAGGAGCCTCACGGCCCGTGTGGCCACATGGGTGTGTGCCAGG
GCCAAGGGGACACAGAAGATGGCAGGATGACACTAATGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG215622 representing NM_001048212

Red=Cloning site Green=Tags(s)

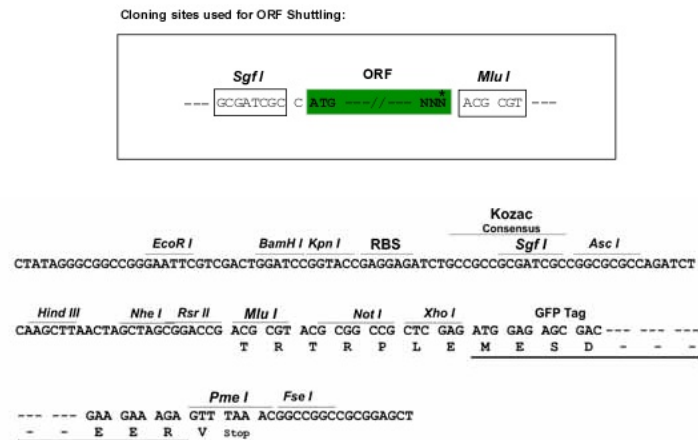
MGTSSSTDQQAGHRCSTNTSAENLTCLSLPGSPGKTAPLPQPAQAGAGQPLPKGCAAVKAEVGIPAPH
TSQEVRIHIRRLLSWAAPGACGLRSTPCALPQALPQARPCGRWFFPGCSLPTGGAQTILSLWTRHFLN
WALQQREENSGRARRVPPVPTAPVSKGEGSHPPQNSNGEKVKITIPDVLHQSLTSDPTVAVLRAKRAP
EAHPPRSCSGSLTARVCHMGVCQGQDTEDEGRMTLMG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001048212

ORF Size:

741 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:

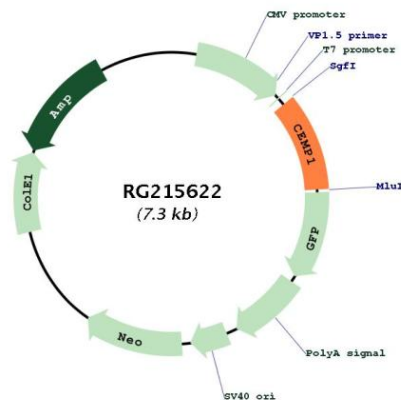
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001048212.3, NP_001041677.1</u>
RefSeq Size:	1374 bp
RefSeq ORF:	744 bp
Locus ID:	752014
UniProt ID:	<u>Q6PRD7</u>
Cytogenetics:	16p13.3
Gene Summary:	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]

Product images:



Circular map for RG215622