

Product datasheet for **RG210111**

CER1 (NM_005454) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CER1 (NM_005454) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CER1
Synonyms: DAND4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210111 representing NM_005454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCTCTCTTATTTTCAGCTGCTGGTACTCCTGCCTCTAGGAAAGACCACACGGCACCAGGATGGCC
GCCAGAATCAGAGTTCTCTTTCCCCGACTCCTGCCAAGGAATCAAAGAGAGCTTCCACAGGCAACCA
TGAGGAAGCTGAGGAGAAGCCAGATCTGTTTGTGCGCAGTGCCACACCTTGTAGGCACCAGCCCTGCAGGG
GAAGGCCAGAGGCAGAGAGAGAAGATGCTGTCCAGATTTGGCAGGTTCTGGAAGAAGCCTGAGAGAGAAA
TGCATCCATCCAGGGACTCAGATAGTGAGCCCTTCCCACCTGGGACCCAGTCCCTCATCCAGCCGATAGA
TGGAAATGAAAATGGAGAAATCTCCTCTTCGGGAAGAAGCCAAGAAATCTGGCACCATTTCATGTTTCAGA
AAAACCTCCGGCTTCTCAGGGGTCATCTTGCCCATCAAAGCCATGAAGTACATTGGGAGACCTGCAGGA
CAGTGCCCTTCAGCCAGACTATAACCCACGAAGGCTGTGAGAAAGTAGTTGTTTCAGAACCACTTTGCTT
TGGGAAATGCGGGTCTGTTTCATTTTCTGGAGCCGCGCAGCACTCCCATACTCCTGCTCTCACTGTTTTG
CCTGCCAAGTTCACCACGATGCACTTGCCAGTGAAGTGCAGTGAAGTTCCTCCGTGATCAAGGTGGTGA
TGCTGGTGGAGAGTGCCAGTGAAGGTGAAGACGGAGCATGAAGATGGACACATCTACATGCTGGCTC
CCAGGATTCCTTTATCCCAGGAGTTTCAGCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210111 representing NM_005454
 Red=Cloning site Green=Tags(s)

MHLLLFQLLVLLPLGKTRHQDGRQNQSSLSPELLPRNQRELPTGNHEEAEEKPDLFVAVPHLVGTSPAG
 EGQRQREKMLSRFGRFWKKPEREMHPSRSDSEPFPPGTQSLIQPIDGMKMEKSPLREEAKKFWHHFMFR
 KTPASQGVILPIKSHEVHWETCRTVPFSQTITHEGCEKVVVQNNLCFGKCGSVHFPGAAQHSHTSCSHCL
 PAKFTTMHLPVNCTELSSVIKVVMLVEECQCKVKTEHEDGHILHAGSQDSFIPGVSA

TRTRPLE - GFP Tag - V

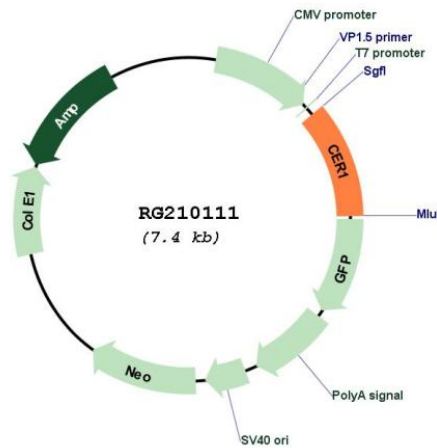
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_005454

ORF Size: 801 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:	<ol style="list-style-type: none">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_005454.2 , NP_005445.1
RefSeq Size:	1206 bp
RefSeq ORF:	804 bp
Locus ID:	9350
UniProt ID:	O95813
Cytogenetics:	9p22.3
Protein Families:	Secreted Protein
Protein Pathways:	Wnt signaling pathway
Gene Summary:	This gene encodes a cytokine member of the cysteine knot superfamily, characterized by nine conserved cysteines and a cysteine knot region. The cerberus-related cytokines, together with Dan and DRM/Gremlin, represent a group of bone morphogenetic protein (BMP) antagonists that can bind directly to BMPs and inhibit their activity. [provided by RefSeq, Jul 2008]