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Product datasheet for MR222551

Cer1 (NM_009887) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cer1 (NM_009887) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cer1
Synonyms:	cer-1; Cerl; Cerl1; Cerr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR222551 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATCTCCTCTTAGTTCAGCTGCTTGTTCTCTTGCCTCTGGGGAAGGCAGACCTATGTGTGGATGGCT
GCCAGAGTCAGGGCTCTTTATCCTTTCCTCTCCTAGAAAGGGGTCGCAGAGATCTCCACGTGGCCAACCA
CGAGGAGGCAGAAGACAAGCCGGATCTGTTTGTGGCCGTGCCACACCTCATGGGCACCAGCCTGGCTGGG
GAAGGCCAGAGGCAGAGAGGGAAGATGCTGTCCAGGCTTGGAAGATTCTGGAAGAAACCTGAGACCGAAT
TTTACCCCCCAAGGGATGTGGAAAGCGATCATGTCTCATCGGGGATGCAGGCCGTGACTCAGCCAGCAGA
TGGGAGGAAAGTGGAGAGATCACCTCTACAGGAGGAAGCCAAGAGGTTCTGGCATCGGTTCATGTTCAGA
AAGGGCCCGGCGTTCCAGGGAGTCATCCTGCCCATCAAAAGCCACGAAGTACACTGGGAGACCTGCAGGA
CTGTGCCCTTCAACCAGACCATTGCCCATGAAGACTGTCAAAAAGTCGTTGTCCAGAACAACCTTTGCTT
TGGCAAATGCAGTTCCATTCGTTTTCCCGGAGAAGGGGCAGATGCCCACAGCTTCTGCTCCCACTGCTCG
CCCACCAAATTCACCACCGTGCACTTGATGCTGAACTGCACCAGCCCAACCCCCGTGGTCAAGATGGTGA
TGCAAGTAGAAGAGTGTCAGTGCATGGTGAAGACGGAACGTGGAGAGGAGCGCCTCCTACTGGCTGGTTC
CCAGGGTTCCTTCATCCCTGGACTTCCAGCTTCAAAAACAAACCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

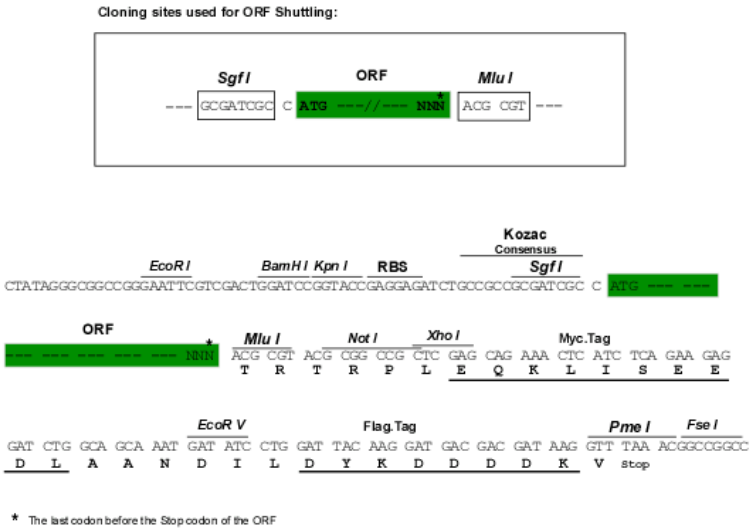
>MR222551 protein sequence
Red=Cloning site Green=Tags(s)

MHLLLVQLLVLLPLGKADLCVDGCQSQGSLSFPLLERGRRDLHVANHEEAEDKPDLFVAVPHLMGTSLAG
EGQRQRGKMLSRLGRFWKKPETEFYPPRDVESDHVSSGMQAVTQPADGRKVERSPLQEEAKRFWHRFMFR
KGPAFQGVILPIKSHEVHWETCRTVPFNQTIAHEDCQKVVVQNNLCFGKCSSIRFPGEGADAHSFCSHCS
PTKFTTVHLMLNCTSPTPVVKMVMQVEECQCMVKTERGEERLLLAGSQGSFIPGLPASKTNP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009887

ORF Size: 819 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.

RefSeq: NM_009887.2, NP_034017.1

RefSeq Size: 1742 bp

RefSeq ORF: 819 bp

Locus ID: 12622

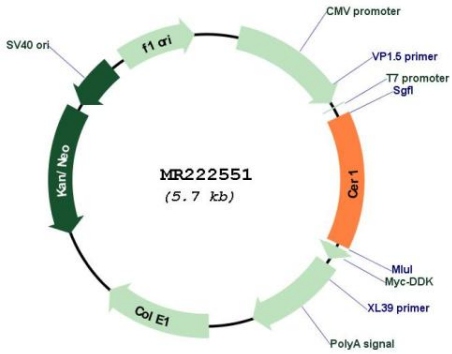
UniProt ID: O55233

Cytogenetics: 4 39.4 cM

MW: 30.4 kDa

Gene Summary: Cytokine that may play a role in anterior neural induction and somite formation during embryogenesis in part, through a BMP-inhibitory mechanism. Can regulate Nodal signaling during gastrulation as well as the formation and patterning of the primitive streak. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222551