

## Product datasheet for **MC217643**

### **Cerk (NM\_145475) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cerk (NM_145475) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cerk
Synonyms:	A1848610; D330016D08Rik; mKIAA1646
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217643 representing NM\_145475  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCAATGGGGCGCGGAGCCGCTGCACTCCGTGCTGTGGGTGAAACGGCGACGCTGTGCCGTCA  
 GCCTGGAGCCCGCGGGCTCTGCTACGCTGGTGGCGGAGCCCGAGCCGGGCCCTCCGCGCCGGGTGC  
 CGATGCCCGCTCGGTACTGGTGTGCGGAGATCATCGCTGTTGAGGAAAAAGACGACTGCGAGAAAACGCC  
 TCCAGTGGCCGATGGCATAAAATGGAAAATCCGTTTCGATTACACAGTCCACCGTGTGAAGCGAGTACGAC  
 ATCACCCTGGAAGTGGGACGGGTGACCTTCTGGAGCGCCGACGAGCAGCTGTGTACCTGTGGCTGCA  
 GACCTCCGTGGGCTGCTGGAGAGCCTGACTTCAAGACCGAAGCACTTGTGGTATTATCAACCCCTTTC  
 GGAGGAAAGGTCAGGGCAAGCGCATCTATGAAAAACAGTGGCGCCTCTGTTTACCTTGGCTTCCATCA  
 CTACGGAGATCATATTACAGAGCATGCCAACCAAGCAAGGAGACTTTATACGAGATCAACACAGACAG  
 CTATGATGGCATCGTGTGCGTAGGTGGGACGGCATGTTACGCGAGGTGCTGCATGGGGTATTGGGAGG  
 ACGCAGCAGAGCGCTGGTATCGACCCCAATCACCCCGAGCCGTGCTGGTGCCAGTACCCTCAGGATCG  
 GCATCATACCCGACGGGTCCACAGATTGTGTGTGTTACTCAACAGTGGGCACAAAACGACGAGAGACATC  
 GGCTTTGCACATCATTATTGGGACTCACTGGCAATAGACGTGTCCTCTGTGCACTACCATAACACGCTG  
 CTGCGGTACTCGGTTTCTCTGCTGGGCTACGGTTTCTACGGGACTTAATCAAGGACAGTAAAAGAAAAC  
 GGTGGATGGGCCCTCGTCCGGTATGATTTCTCAGGGTTGAAGACCTTTCTCTCTCATCAGTACTATGAAGG  
 GACACTGTCCTTCTCCAGCACAGCACACGGTGGGATCTCCACGGGACAATAAACCTGCCGGGCTGGG  
 TGCTTCGTGTGCAGGCAGAGCAAGCAACAGCTGGAAGAAGAAGAGAAGAAAGCCCTGTATGGCCTGGAGA  
 ACGCCGAGGAAATGGAAGAGTGGCAAGTGACATGTGGAAAGTTCTGGCCATCAATGCCACCAACATGTC  
 CTGTGCTTGTCTCGGAGCCCTGGGGCCCTGTCCCATTTGCCCATCTGGGAGATGGGTCTTCTGACCTC  
 ATCCTTATCCGGAAGTGTCCAGGTTCAACTTCTGAGATTCTCATCCGGCACACGAACCAGGAGGACC  
 AGTTCGACTTCACTTTCGTTGAAGTTTATCGAGTCAAGAAATTCACCTTACGTCGAAGCACGTGGGAAG  
 CGAGGACAATGACTCGAAGGAACAAGAGAAGCAGAAGTTTGGGAAGATCTGCAAGGACAGACCCTTTGC  
 ACTTGCTCAGCCTCCAGAAGCTCCTGGAAGTGCATGGCGAAGTGCATGCACAGCCCGCCATTGAGGTCA  
 GGGTCCACTGCCAGCTGGTGCCTCTTTGCTCGGGGAATCGAGGAAGAGTCA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_145475

**Insert Size:** 1596 bp

**OTI Disclaimer:** 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).

**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\\_145475.4](#), [NP\\_663450.3](#)

**RefSeq Size:** 4562 bp

**RefSeq ORF:** 1596 bp

**Locus ID:** 223753

**UniProt ID:** [Q8K4Q7](#)

**Cytogenetics:** 15 E2

**Gene Summary:** Catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate (PubMed:16269826). Acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8-dihydroceramide), to a lesser extent on C2-ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines (PubMed:16269826). Shows a greater preference for D-erythro isomer of ceramides (By similarity). Binds phosphoinositides (By similarity).[UniProtKB/Swiss-Prot Function]