

## Product datasheet for **RC203749**

### **C1orf2 (FAM189B) (NM\_006589) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C1orf2 (FAM189B) (NM_006589) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf2
Synonyms:	C1orf2; COTE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC203749 representing NM\_006589  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGCCCTCGCCTAGTGACTCCAGCCGCTCGCTGACCAGCCGCCAGCACCAGGGCCCTTACCACC  
 TCCGCCTCACCGACCCTGGCTGCAGGCCCTGCTTACGCTGGGGCTGGTCCAAGTCTCCTGGGCATCCT  
 GGTGGTACCTTCAGCATGGTGGCTCTTCCGTCACCACCACCGAGAGCATCAAGAGTCTGCCCGTCT  
 TGGGCTGGGTTCTCGCTGGGTTCTCCGGGTGGTTGGCATTGTGTCTGGAAGCGGCCATTCACTCTAG  
 TGATCTCCTTCTCTCCTTGCTTTCGGTCTCTGTGCATGCTTAGCATGGCTGGCTCTGTTCTCTCCTG  
 TAAGAATGCTCAACTGGCCCGAGACTTCCAACAGTGTCTCTGGAAGGAAAGGTCTGTGTGTGTGTCCC  
 TCTGTTCCCTCCTCCGGCCCTGCCAGAGTCGGGGCAGGAACTGAAAGTTGCCCTAACTCCACCTGTG  
 ATGAAGCCCGAGGGGCCCTCAAGAACCTGCTCTTCAGCGTCTGTGGGCTCACCATTGTGCCGTATAAT  
 CTGTACACTCTGCTATTGTCTGCTGCATCAAATCTTCTCCCTGGACCTCGTGCATACGCTGGCCCT  
 GAGCGGTCACTCAGGCCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCAGCCCTCTCTACACA  
 CCATGCTGGACCTGGAGGAATTTGTCCCGCTGTGCCCCACCGCCCTACTATCCCCAGAGTATACCTG  
 CAGCTCAGAAACAGATGCACAGAGCATCACGTACAATGGCTCCATGGACAGCCAGTGCCCTTGTACCT  
 ACCGATTGCCCCCTTCTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTTTGACC  
 CTCAGTTCACGATGGCTCGTGCATCTGTGAACAGTGGCCTCCATTGTAGACGTGTCCATGGACAGCG  
 GTCTCTGGTGTGTGCAGCATTGGTGACCTCCCTGGGGCTCTAGCCCGTCGGAGGACTCGTGCCTGCTG  
 GAGCTGCAGGGCTCCGTGCGCTCCGTGGACTACGTTCTCTTTCGCTCCATCCAGCGCAGCCGTGCCGGCT  
 ACTGCCACGCTGGACTGTGGCTGCGGGGCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCAGC  
 GGCTGCCCGCTCCTATTCTGCTCTGCCCTGAAGCTCCACCCCACTGGGTGCCCCACAGCTGCCCGC  
 AGCTGCCACCGGTTGGAGGGCTGGCCGCCCTGGGTGGGACCTGCTTCCCGAGCTGAGGCGGGGTTCC  
 CCCGGGGAGGGGCGCCAGCCGAGCCCGCCACCCGAGCCCGACTCGTCGCTTACAGGATAGCTC  
 AGGTTCCCTCACCCACCGGGCACCGGCTCCTCATCCGGCATCCCCACCACCGCTGCTGCTGCCACGG  
 TCCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCAGGGACCTTATACCAAAGTGC  
 TTGAGGAAGAAGCTGCTTCTGTTTCTCTGCAGATACAGGGCTCTGCTCTGAAGCCTGCCTTCCGCT  
 AGCCCGCTGCCCTCCCCAAGTTGCTACGTGCCCGTCCAGCCGAGAAACGGCGCCCTGTGCCACCTTC  
 CAAAAAGTTCCCTGCCCTCGGGCCCTGCACCTGCCACTCCCTGGGGGACCTAAAGGGCAGCTGGCCAG  
 GTCGGGGCTGGTCACTGTTTTCTCCAGATATCCAGGAAAGCCCCAGACCCAGTGGGACTGGAGCTCA  
 TGGACATAAGCAGGTGCCCGGAGCCTGTGGGGCCGGCCTGGCCGAGAGAGCCTCCACCTTCGCAGCTGC  
 GGAGATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCTGTCTGGCCGAGGCTGGAGCGTGGTACCCGCC  
 CCCACAGCCTCAGCCTAACGGGGCAGCCGGGAGACTGGGCTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC203749 representing NM\_006589  
Red=Cloning site Green=Tags(s)

MMPSPSDSSRSLTSRPSTRGLTHLRLHRPWLQALLTLGLVQVLLGILVVTFSMVASSVTTTESIKRSCPS  
WAGFSLAFSGVVGIVSWKRPFTLVISFFSLLSVLCVMLSMAGSVLSCKNAQLARDFQQCSLEKVCVCCP  
SVPLLRPCPESEGQELKVAPNSTCDEARGALKNLLFSVCGLTICAAICTLSAIVCCIQIFSLDLVHTLAP  
ERSVSGPLGPLGCTSPPPAPLLHTMLDLEEFVPPVPPPPYYPPEYTCSSSETDAQSITYNGSMDSPVPLY  
TDCPPSYEAVMGLRGDSQATLFDPLQHDGSCICERVASIVDVSMDSGLVLSAIGDLPGGSPSEDSCLL  
ELQGSVRSVDYVLFRSIQRSRAGYCLSLDCGLRGPFEESPLPRRPPRAARSYSCSAPEAPPLGAPTAAR  
SCHRLEGWPPWVGPCFPELRRRVPRGGRPAAAPPTRAPTRRFSDSSGSLTPPGHRPPHPASPPPLLLPR  
SHSDPGITTSDDTADFRDLYTKVLEEEAASVSSADTGLCSEACLRLARCPSPKLLRARSAEKRRPVPTF  
QKVPLPSGPAPAHSLGDLKGSWPGRGLVTRFLQISRKAPDPSGTGAHGKQVPRSLWGRPGRESLHLRSC  
GDLSSSSLRLLSGRRLERGRPHSLSLNGGSRETGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_006589

**ORF Size:** 2004 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\\_006589.3](#)

**RefSeq Size:** 3209 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 10712

**UniProt ID:** [P81408](#)

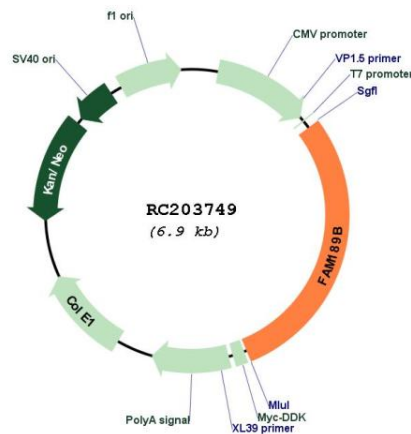
**Cytogenetics:** 1q22

**Protein Families:** Transmembrane

**MW:** 71.2 kDa

**Gene Summary:** This gene is located near the gene for the lysosomal enzyme glucosylceramidase; a deficiency in this enzyme is associated with Gaucher disease. The encoded protein has been identified as a potential binding partner of a WW domain-containing protein which is involved in apoptosis and tumor suppression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

### Product images:



Circular map for RC203749