

## Product datasheet for VC102187

### 2C mature peptide (NC\_001489) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	2C mature peptide (NC_001489) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2C mature peptide
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC102187 represents NCBI reference of NP_740555 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTTCTCCAACGGCTCAGAGATTTTGCAGTGGTATAACAATCTTTAAAAATTTCAAAGATGCCA  
TATACTGGCTGTATACTAAGCTGAAGGATTTTTACGAAGTCAATTATGGTAAAAAGAAGGATATCCTCAA  
TATTCTGAAGGATAATCAGCAAAAAATTTGAAAAGGCTATCGAGGAGGCAGATGAATTTTGTATTCTCAA  
ATTCAGGATGTAGAAAAATTTGAGCAATACCAGAAAGGAGTGGACCTTATCCAAAAACTTAGAACCGTCC  
ACAGTATGGCTCAGGTGGACCCAACTTGATGGTGCACCTGTCTCCTTTGCGCGACTGTATCGCTAGAGT  
TCACCAGAAGCTTAAGAATTTGGGCTCAATTAACCAGGCCATGGTTACCCGCTGTGAGCCTGTTGTCTGT  
TACTTGTATGGGAAACGGGGAGGAGGAAAAAGTCTGACCAGCATTGCGCTTGCCACAAAGATCTGCAAAAC  
ACTACGGGGTGGAGCCTGAAAAGAATATCTATACCAAGCCTGTCGCCAGCGACTATTGGGACGGTTATTC  
CGGACAACTGGTGTATCATCGATGACATCGGACAGAACTACAGACGAGGATTGGAGCGACTTTTGT  
CAGCTGGTAAGCGGATGCCTATGCGCCTGAATATGGCTTCCTGGAGGAGAAGGGCCGCACTTTTCCA  
GTCCTTTTATCATCGAACCTCAAACCTGGTCCAATCCAAGTCCAAAAACAGTCTATGTTAAGGAGGCGAT  
CGACAGAAGGCTGCATTTAAGGTGAGGTAAGCCTGCCTCATTCTTTAAGAATCTCACAAACGACATG  
CTGAACGTTAACCTCGCGAAAACCAATGACGCTATTAAGGATATGAGTTGCGTTGATCTCATTATGGACG  
GACACAACGTGAGCCTGATGGATTTGCTTAGTAGTCTCGTCATGACTGTTGAGATCCGCAAGCAGAATAT  
GACCGAGTTCATGGAACCTCTGGAGTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >VC102187 representing NP\_740555  
Red=Cloning sites Green=Tags

MSFSNWL RDICSGITIFKNFKDAIYWL YTKLKDFYEVNYGKKKDILN ILKDNQQKIEKAIEEAEDEF CILQ  
 IQDVEKFEQYQKGVDLIQKLRTVH SMAQVDPNLMVHLSPLRDCIARVHQKLNKLSINQAMVTRCEPVVC  
 YLYGKRGGGKSLTSIALATKICKHYGVEPEKNIYTKPVASDYWDGYSGQLVCIIDDIGQNTTDEDWSDFC  
 QLVSGCPMRLN MASLEEKGRHFSSPFIATS NWSNPSPKTVYVKEAIDRRLHFKVEVKPASFFKPNPHNDM  
 LNVNLAKTNDAIKDMSCVDLIMDGHNVSLMDLLSSLVMTVEIRKQNMTEFMELWSQ

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NC\_001489

**ORF Size:** 1008 bp

**OTI Disclaimer:** The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

**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: NC\_001489.1, NP\_740555  
RefSeq ORF: 1008 bp  
MW: 38.6 kDa