

## Product datasheet for **RC211738**

### **C12orf42 (NM\_001099336) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf42 (NM_001099336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C12orf42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211738 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTACAGTGATATGTATGAAACAAAGGGACGAAGAATTCTTGCTAACCATCAGACCTTTTGCAAACA  
GGATGCAGAAATCCCCTTGCTATATCCCATTTGTGAGCAGTGCCACCCTGTGGGATAGAAGCACACCCAG  
TGCAAAGCACATCCCTTGTTATGAAAGAAGTTCAGTACCCTGCTCCAGATTCATTAATCACATGAAGAAT  
TTCTCTGAATCTCCTAAATTTTCGTAGTCTACACTTTCTGAATTTCCAGTATTTCCAGAAAGGACTCAA  
ATTCAATGGCGTGTAAAAGACTACTTCATACTTGCCAGTACATAGTCCCAGGTGTTCTGTAAGCACAGT  
TTCTTTTGATGAAGAAAGCTATGAAGAATTCGGTTCCTCTCCAGCACCATCCAGTAAAAGTATGAGGCC  
CCATTGATTTTTACTGCCAGAGGAGAACTGAGGAGAGAGCCAGAGGAGCACCCAAGCAGGCTTGAACA  
GTTCAATTTTGAACAACTGGTTAAAAAGCCTAACTGGGCACACTCAGTAAATCCTGTTACCTGGAGGC  
TCAGGGCATAACATCAGTAGACACACAAGACCTAAGGGCCAGCCCTTGAGCAGTCCCAAGAAAAATTCT  
GGTTCTGCCGCCAGACCTTCCACTGCCATCGGCCCTGTCAGGAGGAGCCAGACGCCCGGCGCTCTGCAGA  
GCACCGGCCCGAGTAACACAGAGCTCGAGCCGGAGGAGAGGATGGCAGTCCCAGCAGGCGCTCAGGCACA  
CCCCGACGACATCAAAGCAGACTCCTGGGCGGTCCGGAATCCCGTCGAAAAGGCGCGTTGCCATG  
GCGCCGAGATGCTCCCCAAGCATCCTCATACCCCGGGACAGGAGGCCTCAGGCGGACACCTCCCTCC  
ATGGCAATCTGGCAGGAGCGCCCTTCCCTGCTGGCCGGTGCTTCCACCATTTCCCTCCAAGAGGTT  
AATAAAGGTTTGCTCCTCAGCACCCCGCCCAACCCGGCGTTTCCATACGGTTTGTTCACAGGCCCTT  
TCTAGGCCGGTGGTGAATGCTCACTTACAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC211738 protein sequence  
Red=Cloning site Green=Tags(s)

MSTVICMKQRDEEFLLTIRPFANRMQKSPCYIPIVSSATLWDRSTPSAKHIPCYERTSVPCSRFINHMKN  
 FSESPKFRSLHFLNFPVFPERTQNSMACKRLLHTCQYIVPRCSVSTVSVFDEESYEFRSSPAPSSSETDEA  
 PLIFTARGETEERARGAPKQAWNSFLEQLVKKPNWAHSVNPVHLEAQGIHISRHTRPKGQPLSSPKKNS  
 GSAARPSTAIGLCRRSQTPGALQSTGPSNTELEPEERMAVPAGAQAHPDDIQSRLLGASGNPVGKAVAM  
 APEMLPKHPHTPRDRRPQADTSLHGNLAGAPLPLLAGASTHFPKRLIKVCSAPPTRRFHTVCSQAL  
 SRPVVNAHLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6603\\_d09.zip](https://cdn.origene.com/chromatograms/mk6603_d09.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001099336

**ORF Size:** 1080 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\\_001099336.2](#), [NP\\_001092806.1](#)

**RefSeq Size:** 1526 bp

**RefSeq ORF:** 1083 bp

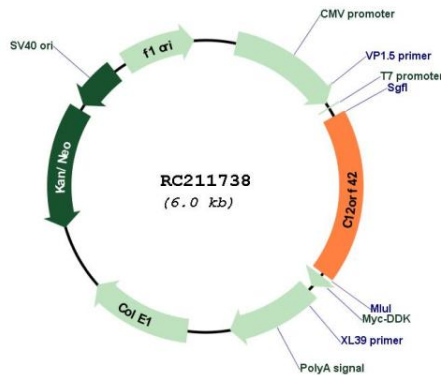
**Locus ID:** 374470

**UniProt ID:** [Q96LP6](#)

**Cytogenetics:** 12q23.2-q23.3

**MW:** 39.7 kDa

**Product images:**



Circular map for RC211738