

Product datasheet for **RC204390**

C12orf4 (NM_020374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C12orf4 (NM_020374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C12orf4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204390 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAAAAACAGAGAAAGATTCTGCAATAGAGAGAGAGAATTTGTATATAAATTTAAAGTAGGAAGTC
 AGTGCTTAGAACTGAGAGTGCCACTCAAATTTCTGTTCAGAGAATGCCAGTCATTTGCATGGAGCTCT
 GATGCTGCTGCACAGTTTACCGTCTTTATAGAAAAAGACTTAAAAAGAAGCTCTGACTCAGTTTATAGAA
 GAAGAATCCCTCAGCGATTATGATAGAGATGCTGAAGCATCCCTGGCAGCTGTGAAATCAGGTGAAGTAG
 ATTTACATCAGCTGGCGAGTACATGGGCCAAAGCTTATGCTGAGACCACGTTAGAGCATGCAAGGCCCTGA
 AGAACCCAGCTGGGATGAAGATTTGCAGATGTGTACCATGACTTAATTCATTCTCTGCCTCTGAAACT
 CTCTTAAATTTGGAACATAATTACTTTGTAGTATCTCAGAACTGATTGGTGAAGAGATGTGGAGCTGA
 AAAAATACGAGAGAGACAAGGTATTGAAATGGAAAAAGTCATGCAGGAATTTGGGAAAATCACTGACAGA
 TCAAGATGTAATTCACCTGGCTGCTCAGCATTTTGAATCCAGCAAGACCTAGAAAAATAATGGTCGAAT
 GAATTAATAACAATCAACTGCCATCCAAAAACAAGAGTATCAAGAATGGTAATAAAAACCTTACCAAGACC
 TAAAAAACCCCAACAACAGCTCCCTTAGTGAGGAAATTAAGTTCAGCCAAGTCAGTTTACAGAAATCTGT
 AGAAGCAATTTGGAAGGATTTATGAGGAACAGAGAAAGTTAGAAGAAAGTTTTACCATTCACTTAGGAGCC
 CAGTTGAAGACCATGCATAATTTGAGATTGCTGAGAGCAGATATGCTGGACTTCTGTAAGCATAAAAAGAA
 ATCATCGAAGTGGTGTGAAACTTCATCGGCTCCAAACAGCTCTGTCACTTTATTCTACATCTCTCTGTGG
 CCTGGTTTTACTAGTAGATAATCGAATTAATTCATATAGTGGTATTAAGAGATTTTCCACAGTTTGC
 CAAGAATGCACCTGACTTCCATTTCCCGAATTTGAAGAGCAATTAGAAGTTGTCCAACAGGTGGTACTTT
 ATGCTAGAACCAGCGCAGGAGTAAATGAAAGAATCACTTGATTTCTGGAAACCAAAATGGAGGAAATGA
 TGATAAGACTAAGAATGCTGAGAGGAACTATTTAAATGTTTTACCTGGGAATTTTATATTACACGGCAT
 TCTAATCTCTCAGAAATCCATGTTGCTTTCCATCTCTGTGTGGATGACCATGTGAAATCGGGAACATCA
 CTGCTCGTGATCCTGCCATTATGGGACTCCGAAATATACTCAAAGTTTGTGTACCCATGACATCACAAC
 AATAAGCATTCTCTCTTGTGTACATGATATGTGAGGAAATGACTATACCTGGTCTTAAGGAGA
 GCGGAACTTGTGTCAAGTGTGCAAAGTTTTCATGATGGAAATGGCTTCATGGGATGGAGGAAATTTCTA
 GGACAGTGCAATTTCTAGTACCACAGAGTATTTCTGAAGAAATGTTTTATCAACTAGTAACATGCTTCC
 CCAGATCTCCGAGTATCATCAACTCACTCTGACATCCAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204390 protein sequence
 Red=Cloning site Green=Tags(s)

MKKNRERFCNREREFVYKFKVGSQCLELRVPLKFPVQENASHLHGRLMLLHSLPCFIEKDLKEALTQFIE
 EESLSDYDRDAEASLAAVKSGEVDLHQLASTWAKAYAETLEHARPEEPSWDEDFADVYHDLIHSPASET
 LLNLEHNYFVSISELIGERDVELKKLRERQGIEMKVMQELGKSLTDQDVNSLAAQHFESQDLENKWSN
 ELKQSTAIQKQEYQEWIKLHQDLKNPNSSLSEEIKVQPSQFRESVEAIGRIYEEQRKLEESFTIHLGA
 QLKTMHNLRLLRADMLDFCKHNRHRSVGLHRLQTALSLYSTSLCGLVLLVDNRINSYSGIKRDFATVC
 QECTDFHFPIEEQLEVVQVVL YARTQRRSKLKESLDSGNQNGGNDKTKNAERNYLNVLPGFYITRH
 SNLSEIHVAFHLCVDDHVKSGNITARDPAIMGLRNILKVCCTHDITTIISIPLLL VHMSEEMTIPWCLRR
 AELVFKCVKGFMMEMASWDGGISRTVQFLVPQSISEEMFYQLSNMLPQIFRVSSTLTLTSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6538_c05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_020374

ORF Size: 1656 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_020374.4](#)

RefSeq Size: 3830 bp

RefSeq ORF: 1659 bp

Locus ID: 57102

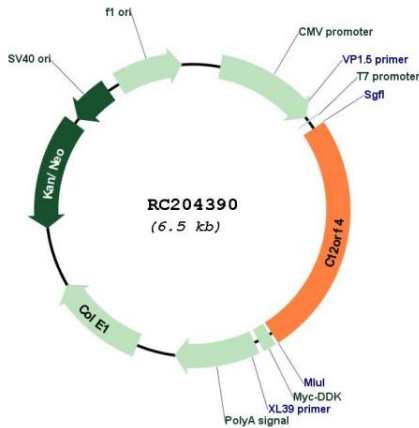
UniProt ID: [Q9NQ89](#)

Cytogenetics: 12p13.32

MW: 63.8 kDa

Gene Summary: This gene is highly conserved from nematodes to humans. In rat, the orthologous gene encodes a cytoplasmic protein that is involved in mast cell degranulation. The human gene has been implicated in autosomal recessive intellectual disability. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC204390