

Product datasheet for **RC208540**

C9orf98 (AK8) (NM_152572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C9orf98 (AK8) (NM_152572) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C9orf98
Synonyms:	AK 8; C9orf98; DDX31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208540 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCCACTATCGCCCCGACCGTATCCCCCCGAGATGCCCCAGTACGGGGAGGAGAACCACATCT
 TCGAGTTGATGCAGAACATGCTGGAGCAACTCCTGATCCACCAGCCGAAGATCCCATCCCCTTCATGAT
 CCAGCACTTGCATAGAGACAACGACAATGTGCCAGGATTGTAATATTAGGTCCACCCGCTCAGGGAAA
 ACAACAATAGCAATGTGGCTCTGCAAACATCTGAACAGCAGTCTCCTCACCTGGAGAACCTGATCTTAA
 ATGAGTTTTCTATACGGCCACCGAAGCCAGAAGGCTTTATCTGCAAAGGAAGACAGTTCACAGCGCGCT
 GCTCGTCCAGTGATTACGGAACGCCTGGCTGAAGAGGATTGCATCAAGCAGGGCTGGATTCTGGATGGC
 ATCCCTGAGACGCGTGAGCAGGCTCTGAGGATCCAGACCCTGGGGATCACACCCAGACACGTCATTGTGC
 TGAGTGCTCCAGACACGGTCTGATCGAGAGAACTTGGGAAGAGAATCGACCCTCAAACCTGGAGAGAT
 TTATCACACCACCTTTGACTGGCCACCCGAATCTGAAATCCAGAACCCTCATGGTGCCAGAGGACATC
 TCAGAGCTGGAGACGGCTCAGAACTGCTGGAGTATCATAGGAACATCGTCAGGGTCATTCCCTCCTACC
 CAAAAATCCTCAAAGTCATCAGTGTGACCAGCCATGTGTGGACGCTTCTACCAGGCTCTGACCTATGT
 CCAAAGCAACCATCGTACTAATGCCCGTTACCCCGAGGGTGTCTGTCTCGGGCTGTGGCAGTGGG
 AAAAGTCTGCAGGCCGCCCTCCTGGCCAGAAATACAGGCTTGTCAATGTCTGTCTGTGGCAACTGCTGA
 AAGAGGCTGTGGCAGATAGGACCACGTTTGGCGAGCTCATCCAGCCCTCTTTGAAAAGGAGATGGCAGT
 TCCTGACAGCCTCCTCATGAAGGTGTGAGCCAGCGCTGGACCAGCAGGACTGCATCCAGAAAGGCTGG
 GTGCTACACGGCGTCCCAGCGGACCTCGACCAGGCACACCTGCTGAACCGCTGGGCTACAATCCCAACA
 GGGTGTTTTTCTGAATGTGCCATTTGATTCCATCATGGAGCGGCTGACTCTGAGAAGAATTGATCCAGT
 CACTGGGAAAGGTACCACCTCATGTACAAGCCACCTCCACCATGGAGATCCAGGCTCGCCTCCTCGAG
 AACCCAAAGGATGCTGAAGAGCAGGTCAAGCTGAAAATGGACCTGTTCTACAGGAACTCAGCTGACTTGG
 AGCAGTTGTATGGGTCGGCCATCACCTCAATGGGGACCAGGCCATACACAGTCTTCGAATACATCGA
 GAGTGGGATCATTAAATCCCCTGCCCAAGAAAATCCCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208540 protein sequence
 Red=Cloning site Green=Tags(s)

MDATIAPHRIPPEMPQYGEENHIFELMQNMLEQLLIHQPEDPIPFMIQHLHRDNDNVPRIVILGPPASGK
 TTIAMWLCKHLNSSLTLENLILNEFSYATEARRLYLQRKTVPSALLVQLIQRERLAEEDCIKQGWILDG
 IPETREQALRIQTLGITPRHVIVLSAPDVTIERNLGKRIDPQTGEIYHTTFDWPPESEIQNRLMPEDI
 SELETAQKLLLEYHRNIVRVIPSYPKILKVISADQPCVDVYQALTYVQSNHRTNAPFTPRVLLLGPVGS
 KSLQAALLAQKYRLVNVCCGQLLKEAVADRTTFGELIQPFPEKEMAVPDSLLMKVLSQRLDQDQCIQK
 VLHGVPRDLQAHLLNRLGYNPNRVFFLNVPFDSIMERLTLRRIDPVTGERYHLMYKPPPTMEIQARLLQ
 NPKDAEEQVKKMDLFYRNSADLEQLYGSAITLNGDQDPYTVFEYIESGINPLPKKIP

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms:

https://cdn.origene.com/chromatograms/mk6620_b04.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_152572

ORF Size: 1437 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_152572.3](#)

RefSeq Size: 2185 bp

RefSeq ORF: 1440 bp

Locus ID: 158067

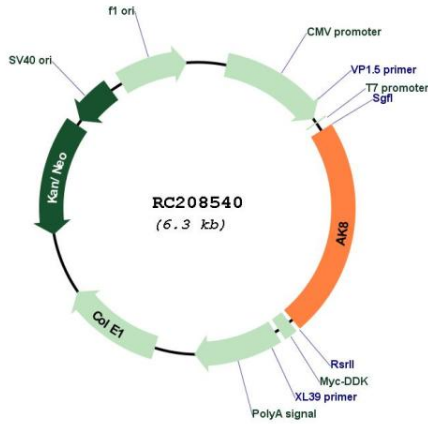
UniProt ID: [Q96MA6](#)

Cytogenetics: 9q34.13

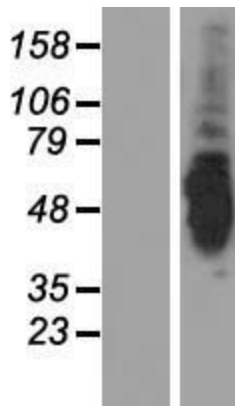
MW: 54.9 kDa

Gene Summary: Nucleoside monophosphate (NMP) kinase that catalyzes the reversible transfer of the terminal phosphate group between nucleoside triphosphates and monophosphates. Has highest activity toward AMP, and weaker activity toward dAMP, CMP and dCMP. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC208540



Western blot validation of overexpression lysate (Cat# [LY407442]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208540 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).