

Product datasheet for **RR208903**

Cul4a (NM_001127301) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cul4a (NM_001127301) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cul4a
Synonyms:	RGD1563853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR208903 representing NM_001127301
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACGAGGGCCCTCGGAAGGCGAGCGTCTCGGCTCTCATGGGCCACCAACGGCCCTACCAAGC
 CCGCGGCGTTGGCCAGTGGCCCCGCCAAACCGGGAGGCACGGGCGGCTCCAGGAAGCTGGTCATCAAGAA
 CTTCCGAGACAGGCCGGCTGCCTGACAACTAACACTCAGGACACGTGGCGGAAGCTTCACGAAGCGGTC
 AAGGCCATCCAGAGCAGCACATCCATCAGGTACAACCTGGAGGAACTGTACCAGGCTGTTGAGAATCTGT
 GCTCTCACAAGTCTCCCCACGCTCTACAAGCAGCTGCGGCAGGTCTGTGAAGACCATGTCAGGCCCA
 GATCCTCCCTTCAGAGAAGACTCACTAGACAGCGTTTTGTTTCTGAAGAAGATTAACACATGCTGGCAA
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 GGTGCAAAGCAAGACCATTGATGGGATCCTGCTGCTGATTGGGCGTGAACGAAGTGGTGAGGCTGTGGAC
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 AGTTCTTGAAGAGACTAACTGTCTGTACGCTGCTGAAGGCCAGCGGCTGATGCAAGACAGGGAGTTCC
 AGAATACCTTAACCATGTGAGTAAACGCTAGAAAGAGGAAGCAGACCGAGTGATCACTTACTTAGACCAC
 AGCACACAAAAACCGTTGATTGCCTGTGTGGAGAAACAGTTGTTAGGAGAACATTTGACAGCAATTTCTC
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 CCGGGTGAAAGGGGGCCAGCACGCACTGCTGCAGCACTGGAGCGAGTACATCAAGACCTTTGGGACAACC
 ATTTGTCATCAATCCTGAGAAAGACAAAGACATGGTCCAAGACCTGCTGGACTTTAAGGACAAAGTGGACC
 ACGTGGTGGAGGTGTGCTTCCAGAGGAACGAGCGCTTCATCAACCTGATGAAGGAGTCTTTGAGACGTT
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 ACGGTAAGATGTCTTTGAAGCATTTTATAAGAAAGACTTAGCAAAAAGGCTGCTAGTGGGGAAGAGCGC
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 CTGGAGGGCATGTTCAAGGACATGGAGCTGTCAAAGACATCATGGTCACTTCAAGCAGCATATGCAGA
 ACCAAAGTGCACCAGGCCCATCGACCTCACGGTGAACATCCTCACCATGGGCTACTGGCCTACATACAC
 ACCCATGGAAGTGCACCTCCCTCCAGAGATGGTCAGACTTCAGGAAGTATTCAAGACGTTCTACCTGGGC
 AAGCACAGTGGCCGGAAGCTGCAGTGGCAGACGCGTGGGACACGCTGTGTTGAAGCGGACTTTAAGG
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 GTTCAGCTTCAAGAAATCAAAATGGCCACCGGCATAGAGGACAGTGAGTTGCGAAGAAGACTGCAGTCT
 CTCGCCTGTGGTAAAGCCCGGCTCTGATTAAGTCCCAAAGGGAAGGAGGTGGAAGACGGAGATAAGT
 TCATCTTCAATGCAGACTTCAAACACAAGTTGTTCCAGAAATAAGATCAATCAAATCCAGATGAAGGAAAC
 CGTTGAAGAACAGGTTAGCACCACAGAGAGAGTGTCCAGGACAGACAGTACCAGATCGACGCTGCTATA
 GTCAGAATAATGAAAATGAGGAAGACACTTGGTCATAATCTTCTAGTTTCTGAATTATACAATCAGCTGA
 AATTTCCAGTAAAGCCTGGAGATTTGAAAAGAGGATTGAGTCACTTATAGACAGAGACTATATGGAACG
 AGACAAAGACAGTCCAAATCAGTACCACTACGTGGCG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208903 representing NM_001127301
Red=Cloning site Green=Tags(s)

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MADEGPRKGSVSALMGRNTGLTKPAALASGPAKPGGTGGSRKLVIKNFRDRPRLPDNYTQDTRWKLHEAV
KAIQSSTSIRYNLEELYQAVENLCSHKVSPTLYKQLRQVCEHVQAQILPFREDSLDSVLFKKINTCWQ
DHCROQMIMIRSIFLFLDRTYVLQNSMLPSIWDMGLELFRNHIISDRMVQSKTIDGILLIGRERSGEAVD
RSLRLSLLSMLSDLQVYKDSFELKFLLEETNCLYAAEQRLMQDREVPEYLNHVSKRLEEEADRVITYLDH
STQKPLIACVEKQLLGEHLTAILQKGLEQLLDENRVPDLTQMYQLFSRVKGGQHALLQHWSEYIKTFGTT
IVINPEKDKDMVQDLLDFKDKVDHVVEVCFQRNERFINLMKESFETFINKRPNKPAELIAKHVDSKLRAG
NKEATDEELERILDKIMILFRFIHGKDVFEAFYKDLAKRLLVGKSASVDAEKSMKSLKHECGAAFTSK
LEGFMKDMELSKDIMVHFQHMNQNSAPGPIDLTVNILTMGYWPTYTPMEVHLPPPEMVRVLEVFKTFYLG
KHSGRKLQWQTTLGHAVLKADFKEGKKEFQVSLFQTLVLLMFNEGDGFSFEEIKMATGIEDSELRRTLQS
LACGKARVLIKSPKGKEVEDGDKFIFNADFHKHLFRIKINQIQMKETVEEQVSTTERVFDQROQYIDAAI
VRIMKMRKTLGHNLLVSELYNQLKFPVKPGDLKKRIESLIDRDYMERDKDSPNQYHYVA
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001127301

ORF Size: 2277 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_001127301.1](#), [NP_001120773.1](#)

RefSeq Size: 2859 bp

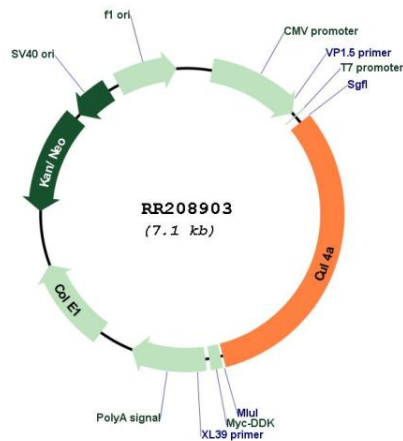
RefSeq ORF: 2280 bp

Locus ID: 361181

Cytogenetics: 16q12.5

MW: 87.8 kDa

Product images:



Circular map for RR208903