

Product datasheet for **RC238796**

Complement factor 8 beta (C8B) (NM_001278543) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Complement factor 8 beta (C8B) (NM_001278543) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | C8B |
| Synonyms: | C82 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC238796 representing NM_001278543
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGAGTGTGGATGTTACCCTGATGCCATTGATTGTGAGCTGTCTAGTTGGTCTCTTGGACCACAT
 GTGACCCCTGTCAGAAGAAAAGGTACAGGTATGCCTACTTGTCTCCAGCCCTCTCAGTTCCATGGGGAACC
 GTGCAACTTCTCTGACAAGGAAGTCAAGACTGTGTTACCAACAGACCATGCAGAAGTCAAGTGCATGT
 GAAGGCTTTGTGTGTGCACAGACAGGAAGGTGTGTAACCCGACAGACTTCTTTGCAATGGGGACAATGACT
 GTGGAGACCAGTCAGATGAAGCAAAGTGTAGAAGGATTTATAAAAAATGTCAGCATGAAATGGACCAATA
 CTGGGGAATTGGCAGTCTGGCCAGTGGGATAAAATTTGTTCAAAACAGTTTTGAGGGCCAGTCTTGTGAT
 CACAGGTATTATGCAGGTGGATGCTCCCCGCATTACATCCTGAACACGAGGTTTAGGAAGCCCTACAATG
 TGGAAAGCTACACGCCACAGACCAAGGCAAATACGAATTCATATTAAGAGATGTAATCATACTCAGA
 TTTTGAACGCAATGTCACAGAGAAAATGGCAAGCAAGTCTGGTTTCAGTTTTGGTTTTAAAATACCTGGA
 ATATTTGAACTTGGCATCAGTAGTCAAAGTGATCGAGGCAAACACTATATTAAGGAGAACCAAACGATTCT
 CTCATACTAAAAGCGTATTTCTGCATGCACGCTCTGACCTTGAAGTAGCACATTACAAGCTGAAACCCAG
 AAGCCTCATGCTCCATTACGAGTTCCTTCAGAGAGTTAAGCGGCTGCCCTGGAGTACAGCTACGGGGAA
 TACAGAGATCTCTCCGTGATTTGGGACCCACTACATCACAGAGGCTGTGCTTGGGGGCATTTATGAAT
 ACACCCCTCGTTATGAACAAAGAGGCCATGGAGAGAGGAGATTACTCTTAACAACGTCATGCCTGTGC
 CAAAAATGATTTAAAATGGTGGTGCCATTGAAGAGGTCTACGTCAGTCTGGGTGTGTCTGTAGGCAAA
 TGCAGAGGTATTCTGAATGAAATAAAAGACAGAAAACAAGAGGGACACCATGGTGGAGGACTTGGTGGTCC
 TGGTACGAGAGGGGCAAGTGAACATCACACCCTGGCATACCAGGAGCTGCCGAGGAGCTGCTGATGAA
 GCAGGAGTGGGGAGACGCTGTGCAGTACAACCCAGCCATCATCAAAGTTAAGGTGGAGCCTCTGTATGAA
 CTAGTGACAGCCACAGATTTTGCCTATTCCAGCACAGTGAGGCAGAACATGAAGCAGGCACTGGAGGAGT
 TCCAGAAGGAAGTTAGTTCCTGCCACTGTGCTCCCTGCCAAGGAAATGGAGTCCCTGTCTGAAAGGATC
 ACGCTGTGACTGCATCTGTCTGTTGGATCCCAAGGCCTAGCCTGTGAGGTCTCCTATCGGAAGAATACC
 CCCATTGATGGGAAGTGGAAATGCTGGTCAAATGGTCTTCATGCTCTGGAAGACGTAAGACAAGACAAA
 GGCAGTGAACAATCCACCTCTCAAATGGGGGTAGCCCTGTTAGGCCCTGCTTCAGAACACTTGA
 CTGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238796 representing NM_001278543
 Red=Cloning site Green=Tags(s)

MRSVDVTLMPIDCELSSWSSWTTCDPCQKKRYRYAYLLQPSQFHGEP CNFSDKEVEDCVNRP CRSQVRC
 EGFVCAQTGRVCVNRLLCNGDNDQDQSDCANCRRIYKCKQHMDQYWGIGSLASGINLFTNSFEGPVLD
 HRYAYAGGCSPHYILNTRFRKPYNVESYTPQTQGYEFILKEYESYDFERNVTEKMASKSGFSFGFKIPG
 IFELGISSQSDRGKHYIRRTKRFSTKSVFLHARSDELVAHYKLPKPSLMLHYEFLQRVKR LPLEYSYGE
 YRDLFRDFGTHYITEAVLGGIYEYTLVMNKEAMERGDYTLNNVHACAKNDFKIGGAIIEVYVSLGVSVK
 CRGILNEIKDRNKRDTMVEDLVVLVRGGASEHITTLAYQELPTADLMQEWGDAVQYNPAI IKVKVEPLYE
 LVTATDFAYSSTVRQNMKQALEEFQKEVSSCHCAPCQNGVPLKGSRCDCICPVGSQGLACEVSYRKNT
 PIDGKWCWSNWSSCSGRRKTRQRQCNNPPPQNGGSPCSGPASETLDCS

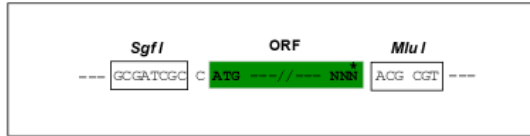
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

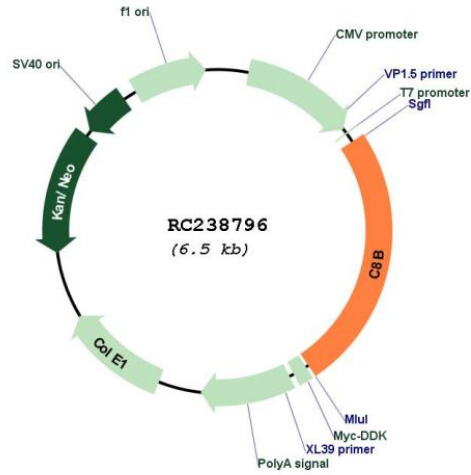
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001278543 |
| ORF Size: | 1617 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: | <ol style="list-style-type: none">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_001278543.1 , NP_001265472.1 |
| RefSeq Size: | 2400 bp |
| RefSeq ORF: | 1620 bp |
| Locus ID: | 732 |
| Cytogenetics: | 1p32.2 |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| Protein Pathways: | Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus |
| MW: | 61.8 kDa |
| Gene Summary: | This gene encodes one of the three subunits of the complement component 8 (C8) protein. C8 is composed of equimolar amounts of alpha, beta and gamma subunits, which are encoded by three separate genes. C8 is one component of the membrane attack complex, which mediates cell lysis, and it initiates membrane penetration of the complex. This protein mediates the interaction of C8 with the C5b-7 membrane attack complex precursor. In humans deficiency of this protein is associated with increased risk of meningococcal infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013] |