

Product datasheet for **RC238737**

Complement factor 8 beta (C8B) (NM_001278544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement factor 8 beta (C8B) (NM_001278544) 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



[View online »](#)

ORF Nucleotide Sequence:

>RC238737 representing NM_001278544
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACACTTGTATGACTCTGGCCTTCACTCTCTCTGGCGTTTCTTCATGCTGCTTCTCAGTACAGGT
 ATGCCTACTTGCTCCAGCCCTCTCAGTTCCATGGGAACCGTGCAACTTCTCTGACAAGGAAGTCAAGA
 CTGTGTTACCAACAGACCATGCAGAAGTCAAGTGCATGTGAAGGCTTTGTGTGCACAGACAGGAAGG
 TGTGTA AACCGCAGACTTCTTTGCAATGGGACAATGACTGTGGAGACCAGTCAGATGAAGCAAAGTGA
 GAAGGATTTATAAAAAATGTCAGCATGAAATGGACCAATACTGGGGAATTGGCAGTCTGGCCAGTGGGAT
 AAATTTGTTCAAAACAGTTTTGAGGGCCAGTCTTGATCACAGGTATTATGCAGGTGGATGCTCCCCG
 CATTACATCTGAACACGAGGTTTAGGAAGCCCTACAATGTGGAAAGCTACACGCCACAGACCCAAGGCA
 AATACGAATTCATATAAAGAGTATGAATCATACTCAGATTTTGAACGCAATGCACAGAGAAAATGGC
 AAGCAAGTCTGGTTTCAGTTTTGGTTTTAAAATACCTGGAATATTTGAACTTGGCATCAGTAGTCAAAGT
 GATCGAGGCAAACACTATATTAGGAGAACCAAACGATTCTCTCATACTAAAAGCGTATTTCTGCATGCAC
 GCTCTGACCTGAAGTAGCACATTACAAGCTGAAACCCAGAAGCCTCATGCTCCATTACGAGTTCCTTCA
 GAGAGTTAAGCGGCTGCCCTGGAGTACAGCTACGGGGAATACAGAGATCTTCCGTGATTTTGGGACC
 CACTACATCACAGAGGCTGTGCTTGGGGCATTATGAATACACCCTCGTTATGAACAAAGAGGCCATGG
 AGAGAGGAGATTACTCTTAACAACGTCCATGCCTGTGCCAAAAATGATTTTAAAATGGTGGTGCCAT
 TGAAGAGGTCTACGTCACTGGGTGTCTGTAGGCAAATGCAGAGGTATTCTGAATGAAATAAAGAC
 AGAAACAAGAGGGACACCATGGTGGAGGACTTGGTGGTCTGGTACGAGGAGGGGCAAGTGCACATCA
 CCACCTGGCATAACAGGAGCTGCCGACGGGACCTGATGCAGGAGTGGGGAGACGCTGTGCATACAA
 CCCAGCCATCATCAAAGTTAAGGTGGAGCCTCTGTGAACTAGTGACAGCCACAGATTTTGCTATTCC
 AGCACAGTGAGGCAGAACATGAAGCAGGCACTGGAGGAGTCCAGAAGGAAGTTAGTTCCTGCCACTGTG
 CTCCTGCCAAGGAAATGGAGTCCCTGTCTGAAAGGATCACGCTGTGACTGCATCTGTCTGTTGGATC
 CCAAGGCCTAGCCTGTGAGGTCTCTATCGGAAGAATACCCCATTTGATGGGAAGTGAATGCTGGTCA
 AATTGGTCTTCATGCTCTGGAAGACGTAAGACAAGACAAGGCAGTGTAAACATCCACCTCTCAAATG
 GGGTAGCCCTGTTCAAGCCCTGCTTCAGAAACACTTGACTGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238737 representing NM_001278544
 Red=Cloning site Green=Tags(s)

MDTCMTLAFTLSGRFFMLLSQYRYAYLLQPSQFHGEPNCFSDKEVEDCVNRPQRSQVRCEGFVCAQTGR
 CVNRRLCNGDNDQDQDEANCRRIYKCKQHMDQYWGIGSLASGINLFTNSFEGPVLDRHYAGGCSP
 HYILNTRFRKPYNVESYTPQTQGYEFILKEYESYDFERNVTEKMASKSGFSFGFKIPGIFELGISSQS
 DRGKHYIRRTKRFSHTKSVFLHARSDELVAHYKLPKPSLMLHYEFLQVRKRLPLEYSYGEYRDLFRDFG
 HYITEAVLGGIYEYTLVMNKEAMERGDYTLNNVHACAKNDFKIGGAIIEVYVSLGVSVMKCRGILNEIKD
 RNKRDTMVEDLVVLVRGGASEHITTLAYQELPTADLMQEWGDAVQYNPAIKVKVEPLYELVTATDFAYS
 STYRQNMKQALEEFQKEVSSCHCAPCQNGVPLKGSRCDCICPVGSQGLACEVSYRKNTPIDGKWCWS
 NWSSCSGRKTRQRQCNNPPQNGGSPSPASETLDCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

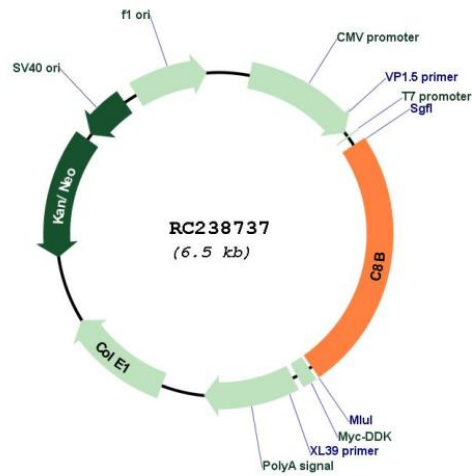
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001278544
ORF Size:	1587 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_001278544.1 , NP_001265473.1
RefSeq Size:	2307 bp
RefSeq ORF:	1590 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:	60.6 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]