

Product datasheet for SC307996

CRB1 (NM_201253) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CRB1
Synonyms:	CRB1-A; CRB1-B; CRB1-C; LCA8; RPI2
Mammalian Cell	None
Selection:	
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_201253 edited
GCCACCATGGCACTTAAGAACATTAACCTACCTTCTCATCTTCTACCTCAGTTTCTCACTG
CTTATCTACATAAAAAATTCCTTTTGCAATAAAAAACAACACCAAGTGCCCTCTCAAATTCT
TGCCAAAACAATTCTACATGCAAAGATTTTCAAAGACAATGATTGTTCTTGTTCAGAC
ACAGCCAATAATTTGGACAAAGACTGTGACAACATGAAAGACCCCTGCTTCTCCAATCCC
TGTCAGGAAGTGCCACTTGTGTGAACACCCAGGAGAAAGGAGCTTTCTGTGCAAAATGT
CCTCCTGGGTACAGTGGGACAATCTGTGAAACTACCATTGGTTCTGTGGCAAGAACTCC
TGCCAACATGGAGGTATTTGCCATCAGGACCCATTTATCCTGTCTGCATCTGCCCTGCT
GGATATGCTGGAAGATTCTGTGAGATAGATCAGATGAGTGTGCTTCCAGCCCTTGCCAA
AATGGGGCCGTGTGCCAGGATGGAATTGATGGTTACTCCTGCTTCTGTGTCCCAGGATAT
CAAGGCAGACACTGCGACTTGGAAGTGGATGAATGTGCTTCAGATCCCTGCAAGAACGAG
GCTACATGCCTCAATGAAATAGGAAGATATACTTGATCTGTCCCCACAATTATTCTGGT
GTAACTGTGAATTGGAATTGACGAATGTTGGTCCCAGCCTTGTTAAATGGTGCAACT
TGTCAGGATGCTCTGGGGCCATTTCTGCGACTGTGCCCCGGATTCTGGGGGATCAC
TGTAAGTCAACACTGATGAGTGTGCCAGTCAACCTTGCTCCATGGAGGGCTGTGTGTG
GATGGAGAAAACAGATATAGCTGTAAGTGCACGGGTAGTGGATTACAGGGACACACTGT
GAGACCTTGATGCCTCTTTGTTGGTCAAAACCTTGTCACAATAATGCTACATGTGAGGAC
AGTGTGACAATTACACTTGTCACTGCTGGCCTGGATACACAGGTGCCAGTGTGAGATC
GACCTCAATGAATGCAATAGTAACCCCTGCCAGTCCAATGGGGAATGTGTGGAGCTGTCC
TCAGAGAAAACAATATGGACGCATCACTGGACTGCCTTCTTCTTCAGCTACCATGAAGCC
TCAGGTTATGTCTGTATCTGTCAGCCTGGATTACAGGAATCCACTGCAAGAAGACGTC
AATGAATGTTCTTCAAACCTTGCCAAAATGGTGGTACTTGTGAGAACTTGCTGGGAAT
TATACTTGCCATTGCCATTTGATAACCTTCTAGAACTTTTATGGAGGAAGGGACTGT
TCTGATATTCTCCTGGGCTGTACCCATCAGCAATGTCTAAATAATGGAACATGCATCCCT
CACTTCCAAGATGGCCAGCATGGATTACAGTGCCTGTGTCCATCTGGCTACACCGGGTCC
CTGTGTGAAATCGCAACCACACTTTTCAATTTGAGGGCGATGGCTTCTGTGGGTCAAAAGT
GGCTCAGTGACAACCAAGGGCTCAGTTTGTAAACATAGCCCTCAGGTTTCAGACTGTTTCA
CCAATGGCTCTTCTACTTTTCCGAAGCAACAGGATGTGTTTGTGAAGCTGGAGCTGCTA



AGTGGCTACATTCACTTATCAATTCAGGTCAATAATCAGTCAAAGGTGCTTCTGTTCAATT
TCCCACAACACCAGCGATGGAGAGTGGCATTTCGTGGAGGTAATATTTGCAGAGGCTGTG
ACCCTTACCTTAATCGACGACTCCTGTAAGGAGAAATGCATCGGAAAGCTCCTACTCCA
CTTGAAAGTGATCAATCAATATGTGCTTTTCAGAACTCCTTTTGGGTGGTTTACCAGTG
GGAATGACCAGCAATGGTGTCTGCTTAACTTCTATAATATGCCATCCACACCTTCG
TTTGATAGGCTGTCTCAAGACATTAAATTTGATTGGAATCACATTACCCTGGAGAACATC
TCGTCTGGCTCATTAATGTCAAGGCAGGCTGTGTGAGAAAGGATTGGTGTGAAAGC
CAACCTTGTCAAAGCAGAGGACGCTGCATCAACTTGTGGCTGAGTTACCAGTGTGACTGC
CACAGGCCCTATGAAGGCCCAACTGTCTGAGAGAGTATGTGGCAGGCAGATTTGGCCAG
GATGACTCCACTGGTTATGTCACTTTACTCTTGATGAGAGCTATGGAGACACCATCAGC
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ACCTTATCAATATATCCGTGTCTGGCTAGAGCGCGCAGACTAGCAATGCTGACTCCAAAC
TCTCCAAATTAGTAGTAAATTTGTTCTTAATGATGGAATGTCCACTTGATATCTTTG
AAAAATCAAGCCATATAAAATTTGAATGTATCAGTCTTCACAAAACCTAGGATTTATTTCT
GCTTCTACGTGGAATCGAAAAGGAGATGTCATCTACATTGGTGGCTACCTGACAAG
CAAGAGACTGAACTTAATGGTGGATTCTTCAAAGGCTGTATCCAAGATGTAAGACTAAAC
AACCAAAATCTGGAATTTTCCAAATCCAAACAAATGCATCTCTCAATCCAGTTCTT
GTCAATGTAACCCAAGGCTGTGCTGGAGACAACAGCTGCAAGTCCAACCCCTGTCAAT
GGAGGTGTTTGGCATTCCCGTGGGATGACTTCTCTGTTCTCTGCTGCCCTCACAAGT
GGGAAAGCCTGTGAGGAGGTTCAAGTGGTGGATTGAGCCCGTGTCTCACGGAGGCCAG
TGCCAGCCGCTGCTTCAAGGATTTGAATGTATTGCAATGCTGTTTTTAATGGACAAAGC
GGTCAAATATTATTCAGAAGCAATGGGAATATTACCAGAGAACTACCAATATCACATTT
GGTTTCAGAACAAAGGATGCAATGTAATAATATTGCATGCAGAAAAGAGCCTGAATTT
CTTAATATTAGCATTCAAGATTCAGATTATTCTTCAATTGCAAAGTGGAACAGCTTT
TATATGCTAAGTCTGACAAGTTTGCAGTCAGTGAATGATGGCACATGGCACGAAGTGACC
CTTTCATGACAGACCCACTGTCCAGACCTCCAGGTGGCAATGGAAGTGGAACACGAA
ACACCTTTTGTGACCAGCACAATTGCTACTGGAAGCCTCAACTTTTGAAGGATAATACA
GATATTTTATGTGGAGACAGAGCTATTGACAATATAAAGGCCGTGCAAGGGTGTCTAAGT
ACAATAGAAATCGGAGGCATTTATCTCTTACTTTGAAAATGTTGATGGTTTCATTAAT
AAACCTCAGGAAGAGCAATTTCTCAAAATCTCTACCAATTCAGTGGTCACTGGCTGTTG
CAGTTAAATGTCTGCAACTCCAACCCCTGTTGATGGAGGAACTGTGAAGACATCTAT
AGCTCTTATCATTGCTCCTGTCCCTTGGGATGGTCAGGGAAACACTGTGAACTCAACATC
GATGAATGCTTTTCAAACCCCTGTATCCATGGCAACTGCTCTGACAGAGTTGCAGCCTAC
CACTGCACATGTGAGCCTGGATACACTGGTGTGAAGTGAAGTGATATAGACAACATGC
CAGAGTCACCAAGTGTGCAATGGAGCCACCTGCATTAGTCATACTAATGGCTATTCTTGC
CTCTGTTTTGGAAATTTTACAGGAAAATTTTGCAGACAGAGCAGATTACCCTCAACAGTC
TGTGGGAATGAGAAGACAAATCTCACTTGCTACAATGGAGGCAACTGCACAGAGTTCCAG
ACTGAATTAATATGTATGTCCGGCCAGGTTTTACTGGAGAATGGTGTGAAAAGGACATT
GATGAGTGTGCTCTGATCCGTGTGCAATGGAGGTCTGTGCCAGGACTTACTCAACAAA
TTCCAGTGCCTCTGTGATGTTGCCTTTGCTGGCGAGCGCTGCGAGGTGGACTTGGCAGAT
GACTTGATCTCCGACATTTTCAACCACTATTGGCTCAGTGACTGTGCGCTTGTACTGATC
CTCTTGCTGGCCATTGTTGCTTCTGTTGTCACTCCAAACAAAGGGCAACTCAGGGAACC
TACAGCCCCAGCGTCAGGAGAAGGAGGCTCCCGAGTGGAATGTGGAACCTTGATGCCA
CCCCTGCAATGGAGACTGATTTAG

Restriction Sites:

Please inquire

ACCN:

NM_201253

Insert Size:

4300 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_201253.1 , NP_957705.1
RefSeq Size:	4950 bp
RefSeq ORF:	4221 bp
Locus ID:	23418
UniProt ID:	P82279
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

This gene encodes a protein which is similar to the Drosophila crumbs protein and localizes to the inner segment of mammalian photoreceptors. In Drosophila crumbs localizes to the stalk of the fly photoreceptor and may be a component of the molecular scaffold that controls proper development of polarity in the eye. Mutations in this gene are associated with a severe form of retinitis pigmentosa, RP12, and with Leber congenital amaurosis. Alternate splicing results in multiple transcript variants, some protein coding and some non-protein coding. [provided by RefSeq, Apr 2012]

Transcript Variant: This variant (1) encodes the longest isoform (1).