

Product datasheet for **RC231481**

CRB1 (NM_001193640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	CRB1
Synonyms:	CRB1-A; CRB1-B; CRB1-C; LCA8; RPI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231481 representing NM_001193640
Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTCAAAAGACAATGATTGTTCTTGTTCCAGACACAGCCAATAATTTGGACAAAGACTGTGACAACATG
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Protein Sequence:

>RC231481 representing NM_001193640

Red=Cloning site Green=Tags(s)

MALKNINYLIFYLSFSLIIYIKNSFCNKNNTCLSNQCQNNSTCKDFSKDNDSCSDTANNLDKDCDNM
KDPCFSNPCQGSATCVNTPGERSFLCKPPGYSGTICETTIGSCGKNSCQHGGICHQDPIYPVICPAGY
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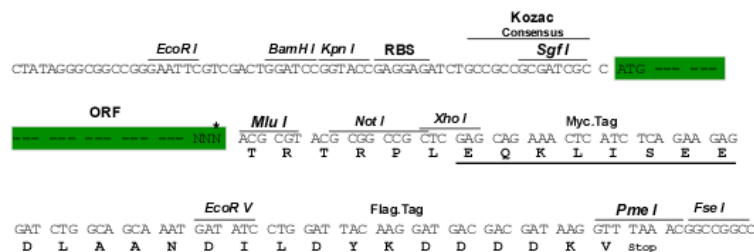
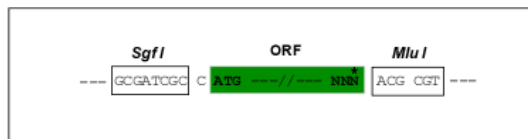
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

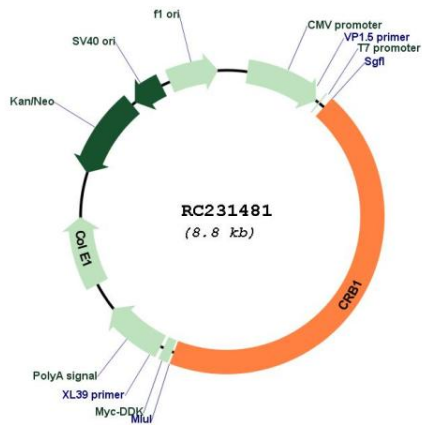
NM_001193640

ORF Size:

3882 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001193640.1 , NP_001180569.1
RefSeq ORF:	3885 bp
Locus ID:	23418
UniProt ID:	P82279
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome, Transmembrane
MW:	142.5 kDa
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]

Product images:



Circular map for RC231481