OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG216815

CRB2 (NM_173689) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRB2 (NM_173689) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRB2
Synonyms:	FSGS9; VMCKD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216815 representing NM_173689
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTGGCCAGGCCTGGGACCCCGGACCCCCAGGCCCTGGCCTCTGTCCTGCTACTGCTGCTCTGGG
CCCCTGCCCTTTCCCTCCTGGCTGGGACGGTGCCTTCAGAGCCCCCCAGTGCCTGTGCCTCAGACCCGTG
CGCTCCAGGGACCGAGTGCCAGGCTACCGAGAGTGGTGGCTATACCTGTGGGCCCATGGAGCCCCGGGGC
TGTGCCACCCAGCCATGCCACCACGGCGCTCTGTGTGTGCCCCAGGGTCCAGATCCCACCGGCTTCCGCT
GCTACTGCGTGCCGGGTTTCCAGGGCCCACGCTGCGAGCTGGACATCGATGAGTGTGCATCCCGGCCGTG
CCACCATGGGGCCACCTGCCGCAACCTGGCCGATCGCTACGAGTGCCATTGCCCCCTTGGCTATGCAGGC
GTGACCTGCGAGATGGAGGTGGACGAGTGCGCCTCAGCGCCCTGCCTGCACGGGGGCTCGTGCCTGGACG
GCGTGGGCTCCTTCCGCTGTGTGTGCGCGCCAGGCTACGGGGGCACCCGTTGCCAGCTGGACCTCGACGA
GTGCCAGAGCCAGCCGTGCGCACATGGGGGCACGTGCCACGACCTGGTCAACGGGTTCCGGTGCGACTGC
GCGGGCACCGGCTACGAGGGCACGCACTGCGAGCGGGAGGTGCTGGAGTGCGCATCGGCGCCCTGCGAGC
ACAACGCGTCCTGCCTCGAGGGCCTCGGGAGCTTCCGCTGCCTCTGTTGGCCAGGCTACAGCGGCGAGCT
GTGCGAGGTGGACGAGGACGAGTGTGCATCGAGCCCCTGCCAGCATGGGGGCCGATGCCTGCAGCGCTCT
GACCCGGCCCTCTACGGGGGTGTCCAGGCCGCCTTCCCTGGCGCCTTCAGCTTCCGCCATGCTGCGGGTT
TCCTGTGCCACTGCCCTCCTGGCTTTGAGGGAGCCGACTGCGGTGTGGAGGTGGACGAGTGTGCCTCACG
GCCATGCCTCAACGGAGGCCACTGCCAGGACCTGCCCAATGGCTTCCAGTGTCACTGCCCAGATGGCTAC
GCAGGGCCGACATGTGAGGAAGATGTGGATGAATGCCTGTCGGATCCCTGCCTGCACGGCGGAACCTGCA
GTGACACTGTGGCAGGCTATATCTGCAGGTGCCCAGAGACCTGGGGTGGGCGCGACTGTTCTGTGCAGCT
CACTGGCTGCCAGGGCCACACCTGCCCGCTGGCTGCCACCTGCATCCCTATCTTCGAGTCTGGGGTCCAC
AGTTACGTCTGCCACTGCCCACCTGGTACCCATGGACCGTTCTGTGGCCAGAATACCACCTTCTCTGTGA
TGGCTGGGAGCCCCATTCAGGCATCAGTGCCAGCTGGTGGCCCCCTGGGTCTGGCACTGAGGTTTCGCAC
CACACTGCCCGCTGGGACCTTGGCCACTCGCAATGACACCAAGGAAAGCTTGGAGCTGGCATTGGTGGCA

View online »

GCCACACTTCAGGCCACACTCTGGAGCTACAGCACCACTGTGCTTGTCCTGAGACTGCCGGACCTGGCCC
TAAACGATGGCCATTGGCACCAGGTGGAGGTTGTGCTCCATCTAGCGACCCTGGAGCTACGGCTCTGGCA
TGAGGGCTGCCCTGCCCGGCTCTGTGTGGCCTCTGGTCCTGTGGCCCTGGCTTCCACGGCTTCGGCAACT
CCGCTGCCTGCCGGGATCTCCTCTGCCCAGCTGGGGGACGCGACCTTTGCAGGCTGCCTCCAGGACGTGC
GTGTGGATGGCCACCTCCTGCTGCCTGAGGATCTCGGTGAGAACGTCCTCCTGGGCTGTGAGCGCCGAGA
GCAGTGCCGGCCTCTGCCTTGTGTCCACGGAGGGTCCTGTGTGGATCTGTGGACTCATTTCCGTTGCGAC
TGTGCCCGGCCCCATAGAGGTCCCACGTGCGCTGATGAGATTCCTGCTGCCACCTTTGGCTTGGGAGGCG
CCCCAAGCTCTGCCTCCTTTCTGCTCCAAGAGCTGCCAGGTCCCAACCTCACAGTGTCTTTCCTTCTCCG
CACTCGGGAGTCCGCTGGCCTGTTGCTCCAGTTTGCCAATGACTCCGCAGCTGGCCTAACAGTATTCCTG
AGTGAGGGTCGGATCCGGGCTGAGGCGCCGGGCAGTCCTGCTGTAGTGCTCCCTGGGCGCTGGGATGATG
GGCTCCGTCACCTGGTGATGCTCAGCTTCGGGCCTGACCAGCTGCAGGACCTGGGGCAGCACGTGCACGT
GGGTGGGAGGCTCCTTGCTGCCGACAGCCAGCCCTGGGGTGGGCCCTTCCGAGGCTGCCTCCAGGACCTG
CGACTCGATGGCTGCCACCTCCCCTTCTTTCCTCTGCCACTGGATAACTCAAGCCAGCCCAGCGAGCTCG
GCGGCAGGCAGTCCTGGAACCTCACTGCGGGCTGCGTCTCCGAGGACATGTGCAGTCCTGACCCCTGTTT
CAATGGTGGGACTTGCCTCGTCACCTGGAATGACTTCCACTGTACCTGCCCTGCCAATTTCACGGGGCCT
ACGTGTGCCCAGCAGCTGTGGTGTCCCGGCCAGCCCTGTCTCCCACCTGCCACGTGTGAGGAGGTCCCTG
ATGGCTTTGTGTGTGTGGCGGAGGCCACGTTCCGCGAGGGTCCCCCCGCCGCGTTCAGCGGGCACAACGC
GTCGTCAGGGCGCTTGCTCGGCGGCCTGTCGCTGGCCTTTCGCACGCGCGACTCCGAGGCCTGGCTGCTG
CGTGCCGCGGCGGGCGCCCTGGAAGGCGTGTGGCTGGCGGTGCGCAATGGCTCGCTGGCGGGGGGCGTGC
GCGGAGGCCATGGCCTGCCCGGCGCTGTGCTGCCCATACCGGGGCCGCGCGTGGCCGATGGTGCCTGGCA
CCGCGTGCGTCTGGCCATGGAGCGCCCGGCGGCCACCACCTCGCGCTGGCTGCTGTGGCTGGATGGTGCC
GCCACCCCGGTGGCGCTGCGCGGCCTGGCCAGTGACCTGGGCTTCCTGCAGGGCCCGGGTGCTGTGCGCA
TCCTGCTGGCTGAGAACTTCACCGGCTGCTTGGGCCGCGTGGCGCTGGGCGGCCTGCCCCTGCCCTTGGC
GCGGCCCCGGCCCGGCGCGGCCCCTGGCGCCCGAGAGCACTTCGCGTCTTGGCCTGGGACGCCGGCCCCG
ATCCTCGGCTGCCGCGGCGCGCCCGTGTGTGCGCCCTCGCCCTGTCTGCACGACGGTGCCTGCCGTGACC
TCTTCGACGCCTTTGCCTGCGCCTGCGGCCCGGGGTGGGAAGGCCCGCGCTGCGAAGCCCACGTCGACCC
CTGTCACTCCGCCCCCTGCGCCCGTGGCCGCTGTCACACGCACCCCGACGGCCGCTTCGAGTGCCGCTGC
CCGCCTGGCTTCGGGGGCCCGCGCTGCAGGTTGCCTGTCCCATCCAAGGAGTGCAGCCTGAATGTCACCT
GCCTCGATGGCAGCCCATGTGAGGGTGGCTCTCCCGCTGCCAACTGCAGCTGCCTGGAGGGTCTTGCTGG
CCAGAGGTGTCAGGTCCCCACTCTCCCCTGTGAAGCCAACCCCTGCTTGAATGGGGGCACCTGCCGGGCA
GCTGGAGGGGTGTCTGAATGTATCTGCAATGCCAGATTCTCCGGCCAGTTCTGTGAAGTGGCGAAGGGCC
TGCCCCTGCCGCTGCCATTCCCACTGCTGGAGGTGGCCGTACCTGCAGCCTGTGCCTGCCTCCTCCTCCT
CCTCCTGGGCCTCCTTTCAGGGATCCTGGCAGCCCGAAAGCGCCGCCAGTCTGAGGGCACCTACAGCCCA
AGCCAGCAGGAGGTGGCTGGGGCCCGGCTGGAGATGGACAGTGTCCTCAAGGTGCCACCGGAGGAGAGAC
TCATC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

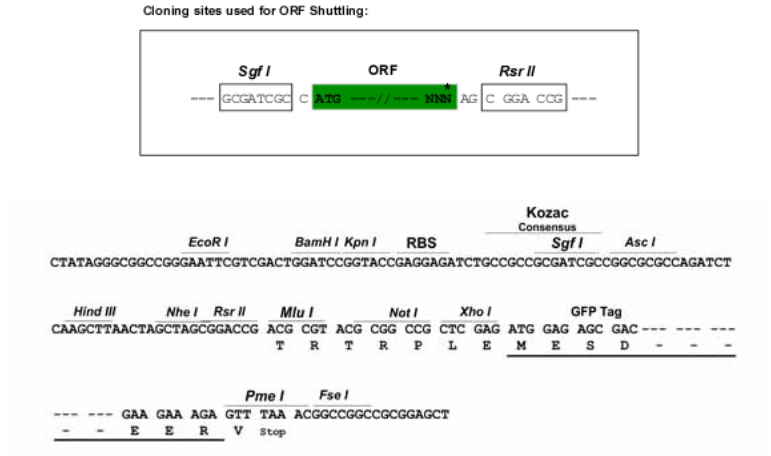
>RG216815 representing NM_173689
Red=Cloning site Green=Tags(s)

MALARPGTPDPQALASVLLLLLWAPALSLLAGTVPSEPPSACASDPCAPGTECQATESGGYTCGPMEPRG
CATQPCHHGALCVPQGPDPTGFRCYCVPGFQGPRCELDIDECASRPCHHGATCRNLADRYECHCPLGYAG
VTCEMEVDECASAPCLHGGSCLDGVGSFRCVCAPGYGGTRCQLDLDECQSQPCAHGGTCHDLVNGFRCDC
AGTGYEGTHCEREVLECASAPCEHNASCLEGLGSFRCLCWPGYSGELCEVDEDECASSPCQHGGRCLQRS
DPALYGGVQAAFPGAFSFRHAAGFLCHCPPGFEGADCGVEVDECASRPCLNGGHCQDLPNGFQCHCPDGY
AGPTCEEDVDECLSDPCLHGGTCSDTVAGYICRCPETWGGRDCSVQLTGCQGHTCPLAATCIPIFESGVH
SYVCHCPPGTHGPFCGQNTTFSVMAGSPIQASVPAGGPLGLALRFRTTLPAGTLATRNDTKESLELALVA
ATLQATLWSYSTTVLVLRLPDLALNDGHWHQVEVVLHLATLELRLWHEGCPARLCVASGPVALASTASAT
PLPAGISSAQLGDATFAGCLQDVRVDGHLLLPEDLGENVLLGCERREQCRPLPCVHGGSCVDLWTHFRCD
CARPHRGPTCADEIPAATFGLGGAPSSASFLLQELPGPNLTVSFLLRTRESAGLLLQFANDSAAGLTVFL
SEGRIRAEAPGSPAVVLPGRWDDGLRHLVMLSFGPDQLQDLGQHVHVGGRLLAADSQPWGGPFRGCLQDL
RLDGCHLPFFPLPLDNSSQPSELGGRQSWNLTAGCVSEDMCSPDPCFNGGTCLVTWNDFHCTCPANFTGP
TCAQQLWCPGQPCLPPATCEEVPDGFVCVAEATFREGPPAAFSGHNASSGRLLGGLSLAFRTRDSEAWLL
RAAAGALEGVWLAVRNGSLAGGVRGGHGLPGAVLPIPGPRVADGAWHRVRLAMERPAATTSRWLLWLDGA
ATPVALRGLASDLGFLQGPGAVRILLAENFTGCLGRVALGGLPLPLARPRPGAAPGAREHFASWPGTPAP
ILGCRGAPVCAPSPCLHDGACRDLFDAFACACGPGWEGPRCEAHVDPCHSAPCARGRCHTHPDGRFECRC
PPGFGGPRCRLPVPSKECSLNVTCLDGSPCEGGSPAANCSCLEGLAGQRCQVPTLPCEANPCLNGGTCRA
AGGVSECICNARFSGQFCEVAKGLPLPLPFPLLEVAVPAACACLLLLLLGLLSGILAARKRRQSEGTYSP
SQQEVAGARLEMDSVLKVPPEERLI

SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:

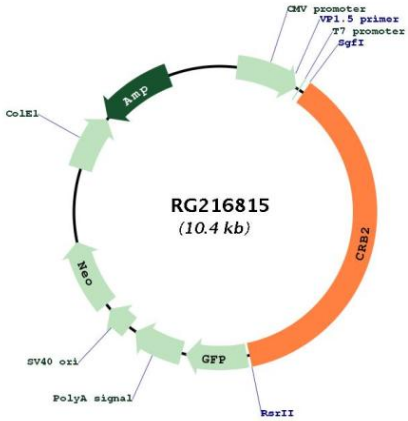


ACCN: NM_173689

ORF Size: 3855 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_173689.4, NP_775960.3
RefSeq Size:	5640 bp
RefSeq ORF:	3858 bp
Locus ID:	286204
UniProt ID:	Q5IJ48
Cytogenetics:	9q33.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a member of a family of proteins that are components of the Crumbs cell polarity complex. In mammals, members of this family are thought to play a role in many cellular processes in early embryonic development. A similar protein in Drosophila determines apicobasal polarity in embryonic epithelial cells. Mutations in this gene are associated with focal segmental glomerulosclerosis 9, and with ventriculomegaly with cystic kidney disease. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG216815