

Product datasheet for **SC123049**

EFCAB4B (CRACR2A) (NM_032680) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFCAB4B (CRACR2A) (NM_032680) Human Untagged Clone
Tag:	Tag Free
Symbol:	EFCAB4B
Synonyms:	EFCAB4B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_032680 edited
GTCGGGCGGAGCAGGCGGCTGCTTGACAGCTGAGAGCCGAGCGGGCGGCGGGCAGGTC
CACGGGAAGCCTACACGCCCAAGGTCATGCCCTGACCACAGCTGCCCTTCAGGAGGCTGG
CACGGAGCCACCTGGGGCCATTGGGCTGTTTGTCAAGGGTGGGGCAGCAGCAACTTGCCA
CTCTTCCTCCATGAGCCAGCCAGAGCCTCCACTGGGCACTTAGCACAAGAAAAACCTG
CAGGAGCCGGATCCAGAGCGCTGGGATTGAGCAGGAGTGCCAGGAGAATTCAACACAGGT
GTGCTGCCTCCTCCTGCCAGGTGTGTGGTGCACAGGAGTCTTGCTGATGGTGAATT
CAAGTCACCAAGTGGCCAAAGTACCCTCCAGGTGTGAAGAGTTGACAGGTCTCCGAGGAGC
CGGGAGCTGCAAGGTTCTGAAAAAGACTTCAAGAACTGACTAATCGCGATGGCTGCCCC
TGACGGGAGGGTAGTCTCCAGACCCAGAGACTTGGTCAGGGGTCTGGCCAGGGGCCAAA
GGGGAGTGGAGCCTGCCTGCATCCCTGGACAGCCTGGAGCAGAAGGAGACTCAGGAGCA
AACGTCGGGCCAGCTAGTCATGCTGAGGAAGGCACAGGAGTTCTTTCAGACCTGTGATGC
TGAAGGCAAGGGCTTCATCGCCAGGAAGGATATGCAGAGGCTGCATAAGGAGCTACCGCT
CAGCCTGGAGAACTGGAGGATGTGTTTGTGCTGCTGATGGCAATGGCTATCT
GACCCACAGGAGTTCACTACTGGATTTAGTCACTTCTTCTTCAGCCAGAATAACCCAAG
TCAGGAAGATGCAGGTGAACAGGTGGCCAGCGCATGAAGAGAAGGTGTATCTGTCCAG
AGGGGATGAGGATCTGGGCGACATGGGCGAAGATGAGGAAGCCAGTTCCGGATGCTGAT
GGACAGACTTGGAGCCCAAAAGGTGTTGGAAGATGAAAGTGATGTCAAGCAGCTCTGGTT
GCAGCTGAAGAAGGAGGAACCTCATTTACTGTCCAACCTTGAAGACTTCTGACCAGAAT
CATCTCCAGCTCCAAGAAGCCCATGAGGAGAAGAATGAACTGGAGTGTGCCCTAAAAAG
GAAAAATTGCTGCTTATGATGAAGAAATCCAGCATCTCTATGAGGAGATGGAACAACAAAT
CAAAAGTGAGAAGGAGCAGTTTCTCCTGAAGGACACAGAGAGTTTCAAGCCCGCAGTCA
AGAGCTGGAGCAGAACTGTTATGTAAGGAGCAGGAGCTGGAGCAGCTCACCAGAAGCA
GAAAAGGCTGGAAGGTCAGTGCACAGCCCTGCATCATGACAAGCATGAGACCAAGGCTGA
GAATACCAAGCTGAAACTCACTAACCAGGAGCTGGCCCGGAGCTGGAGCGGACTTCCTG
GGAGCTCCAGGATGCTCAGCAGCAGTTGGAAAGCCTCCAGCAAGAGGCCTGCAAACTCCA
CCAAGAGAAGGAGATGGAAGGTACCGTGTGACGGAGAGTCTACAGCGTGAGAAGGCCGG
GCTCCTCAAGCAGCTGGATTTCTAAGGTGCGTCGGTGGGCACTGGCCTGTGCTGAGAGC
ACCTCCCAGAAGCCTGGGGTCGGAAGGACCAGTCTGAGGGTCATCCTTGCTACGTGCTG
GAAAAACGTGCCTGCTGAGAGAGTGCCCTCAATTCCTTGGTCCCAGTGCAGTGTTTGG
ACCACCAAGTAGCCACTCTATTATGTTTGGTCCGTTTACACATGCGCCACATCCAGTTT
ATTCCTCCTGGTGGGAGGCTCTGCCCCACTCCTCTGAGTCCCTCACAGGACTGTGCTTG
GTACTTGATCTCATGCGAGCAGAGCTGGGTTTAAATGAGCATTTAATCTATGCTAGAAATA
TTATCTCGTTTATTGTCAGCAAACTGTTAGGTGAGTAGGGCAGTTTATTACAGGAATT
TACTGATGGGAAGTTGATATTAGAGGAAAGAAGTAATTTACCACAGGCGACACAGCTACT
CTCTGATGGGGCCAGAATGGAATCCGTAACCTCGGCTGTGTTCTGTTTCTGTTTGTGAA
TGAGTAAATGAATCACAACAGAGCACCAAGAAAAAGCTTTCTCAGCCTTCAAAGACCCC
CAGCAATAAACTCAAAGTTTACTGGTAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_032680 unedited <pre> ACGTTCAAATTTGTAATACGACTCACTATAGNNGCGGCCGCGAATCGGCACGAGGGTC GGGCGGAGCAGGCGGCTGCTTGACAGCTGAGAGCCGAGCGGGCGGCGGCAGGTCCAC GGGAAGCCTACACGCCCAAGGTCATGCCCTGACCACAGCTGCCCTTCAGGAGGCTGGCAC GGAGCCACCTGGGGCCATTGGGCTGTTTGTCAAGGGTGGGGCAGCAGCAACTTGCCACTC TTCCTCCATGAGCCCAGCCAGAGCCTCCACTGGGCACTTAGCACAAGAAAAACCTGCAG GAGCCCGATCCAGAGCGCTGGGATTACAGCAGGAGTGCCAGGAGAATTCAACACAGGTGTG CTGCCTCCTCTCCTGCCAGGTGTGTGGCTGCACAGGAGTCTTGCTGATGGTGGAATTCAA GTCACCACTGGCCAAAGTACCCTCCAGGTGTGAAGAGTTGCAGGTCTCCGAGGAGCCGG GAGCTGCAAGGTTCTGAAAAAGACTTCAAGAACTGACTAATCGCGATGGCTGCCCTGA CGGGAGGGTAGTCTCCAGACCCAGAGACTTGGTCAGGGGTCTGGCCAGGGGCCAAAGGG GAGTGGAGCCTGCCTGCATCCCCTGGACAGCCTGGAGCAGAAGGAGACTCAGGAGCAAAC GTCGGGCCAGCTAGTCATGCTGAGGAAGGCACAGGAGTTCTTTCAGACCTGTGATGCTGA AGGCAAGGGCTTCATCGCCAGGAAGGATATGCAGAGGCTGCATAAGGAGTACCGCTCAG CCTGGNAGAACTGGGAGATGTGTTTGATGCCCTGGATGCTGATGGCAATGGCTATCTGAC CCACAGGAGTTCACTACTGGATTAGTCACTTCTNCTCAGCCAGAATAACCCAGTCAGG AAGATGCANGTGAACAGGTGA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_032680
Insert Size:	2213 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_032680.2</u> , <u>NP_116069.1</u>
RefSeq Size:	2204 bp
RefSeq ORF:	1188 bp
Locus ID:	84766
UniProt ID:	<u>Q9BSW2</u>
Cytogenetics:	12p13.32

Gene Summary:

Ca(2+)-binding protein that plays a key role in store-operated Ca(2+) entry (SOCE) in T-cells by regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca(2+) concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca(2+) resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (c) has a shorter and distinct C-terminus, compared to isoform a.