

Product datasheet for **SC326203**

EFCAB4B (CRACR2A) (NM_001144958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFCAB4B (CRACR2A) (NM_001144958) 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: >OriGene sequence for NM_001144958 edited
 AAGTCACCAAGTGGCCAAAGTACCCTCCAGGTGTGAAGAGTTGCAGGTCTCCGAGGAGCC
 GGGAGCTGCAAGGTTCTGAAAAAGACTTCAAGAACTGACTAATCGCGATGGCTGCCCT
 GACGGGAGGGTAGTCTCCAGACCCAGAGACTTGGTCAGGGGTCTGGCCAGGGGCCAAAG
 GGGAGTGGAGCCTGCCTGCATCCCCTGGACAGCCTGGAGCAGAAGGAGACTCAGGAGCAA
 ACGTCGGGCCAGCTAGTCATGCTGAGGAAGGCACAGGAGTTCTTTCAGACCTGTGATGCT
 GAAGGCAAGGGCTTCATCGCCAGGAAGGATATGCAGAGGCTGCATAAGGAGCTACCGCTC
 AGCCTGGAGGAAGTGGAGGATGTGTTTGTGCGCTGGATGCTGATGGCAATGGCTATCTG
 ACCCCACAGGAGTTCACTACTGGATTTAGTCACTTCTTCTTCAGCCAGAATAACCCAAGT
 CAGGAAGATGCAGGTGAACAGGTGGCCAGCGCCATGAAGAGAAGGTGTATCTGTCCAGA
 GGGGATGAGGATCTGGGCGACATGGGCGAAGATGAGGAAGCCAGTTCGGATGCTGATG
 GACAGACTTGGAGCCAAAAGGTGTTGGAAGATGAAAGTGATGTCAAGCAGCTCTGGTTG
 CAGCTGAAGAAGGAGGAACCTCATTTACTGTCCAACCTTTGAAGACTTCTGACCAGAATC
 ATCTCCAGCTCCAAGAAGCCCATGAGGAGAAGATGAACTGGAGTGTGCCCTAAAAAGG
 AAAATTGCTGCTTATGATGAAGAAATCCAGCATCTCTATGAGGAGATGGAACAACAAATC
 AAAAGTGAGAAGGAGCAGTTTCTCCTGAAGGACACAGAGAGGTTTCAAGCCCGCAGTCAA
 GAGCTGGAGCAGAACTGTTATGTAAGGAGCAGGAGCTGGAGCAGCTCACCCAGAAGCAG
 AAAAGGCTGGAAGGTCACTGACAGCCCTGCATCATGACAAGCATGAGACCAAGGCTGAG
 AATACCAAGCTGAACTCACTAACCAGGAGCTGGCCCGGAGCTGGAGCGGACTTCTGG
 GAGCTCCAGGATGCTCAGCAGCAGTTGGAAGCCTCCAGCAAGAGGCCTGCAAACTCCAC
 CAAGAGAAGGAGATGGAAGTGACCGTGTGACGGAGAGTCTACAGCGTGAGAAGGCCGGG
 CTCCTCAAGCAGCTGGATTTCTAAGGGAAGGAACAAGCACCTTCGGGATGAACGGGAC
 ATATGTTTTTCAGAAAAATAGGCAGCCAAAGCAAACACAGCTGCTTCCAGGGCAAGTTGG
 AAAAAGAGATCTGGCTCTGTGATAGGCAAAATATGTGGACAGCAGAGGGATTCTTAGGAGC
 CAGTCAGAGGAGGAGGAGGAGGTGTTTGGCATCCCAAGGAGAAGCTCCCTGGGCCTGAGT
 GGATATCCCTAACAGAAGAGGAGCCAGGAACCGGGGAGCCAGGGCCTGGGGGTCCGTAC
 CCGCGCCGCTCCGAGCAATCATCTCCGTTGAAGAAGACCCCTGCCCCAGCTCCTGGAT
 GGTGGCTTTGAGCAACCCCTGAGCAATGCTCAGAAGAGGAAGAGGTCTCTGACCAGGGG
 GTACAGGGACAAATCCCGAGGGCCCCACCCTTGAACTCACCCCCACATCCCCCGAGGG
 CAGCCTGTTGAAAAGAAGCCCTGTGTAAGGAGGAAAGCTCTCCCTCTGCCCTGACCGG
 CTCTTCAAGATTGTGTTCTGTGGCAATTCGCGGTGGGAAGACATCCTTCTGAGGAGA
 TTCTGTGAGGACCGTTCTCCCGAGCATGGCGGCCACTGTGGGATTGATTACCGTGTG
 AAGACGTTGAATGTGGACAACTCTCAGGTGGCCCTGCAGCTGTGGGACACGGCTGGGCAG
 GAGAGGTACCGGTGCATCACCCAGCAGTTCTTCAGAAAGGCAGATGGTGTATCGTCATG
 TACGATCTCACAGACAAGCAGTCGTTCTGTGCGTCCGGCGGTGGCTGAGCAGCGTGGAG
 GAAGCTGTGGGAGACCGGTGCCTGTTCTTCTGCTGGGTAATAAGCTTGACAACGAGAAG
 GAGCGGGAAGTCCCCGGGGCCTCGGAGAGCAGCTTGCCACGGAGAACAATCTGATCTTC
 TATGAATGCAGCGCTACTCTGGTCACAACACCAAGAGTCCCTGCTCCATCTGGCCAGG
 TTCCTCAAGGAGCAAGAAGACACAGTGAGAGAGGACACCATTAGGTGCGCCACCCTGCT
 AAGAAGAAATCCTGCTGTGGCTGA

Restriction Sites: Please inquire

ACCN: NM_001144958

Insert Size: 2300 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).

OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001144958.1.
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_001144958.1, NP_001138430.1</u>
RefSeq Size:	2795 bp
RefSeq ORF:	2196 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 (1) represents the longer transcript and encodes the longer isoform (a).