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Product datasheet for MC214729

Cracr2a (NM_001033464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cracr2a (NM_001033464) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cracr2a
Synonyms:	Efcab4b; Gm462; Gm1073
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC214729 representing NM_001033464
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCCCCAGTGGAAGAGAAGACTCCAGCTCCCAGACACCAGGTCATGGGAAGCAGGGAAGTGGAG
CCTGCGTGGAGCAACTGGACCACCCGGAGAAGCTGGAGGTGGAGATGCCAGACCAGAGTGCCATGTGGAA
GAAAGCACAGGAATTCTTCCAGACCTGTGACTCCGAGGGCAAGGGCTTCATTGCCAGGACAGACATGCAG
AGGCTGCATCAGGAGTTGCCCCTAAGTCTAGAAGAATTGGAAGATGTGTTTGACGCCCTGGATGCTGATG
GCAATGGCTTTCTGACCCCAGAAGAGTTCACCACTGGATTTAGTCACTTCTTCTTCAGTCAAAATATCCA
AGGAGAGGAAGAAGCTGACCAGCAGGTGGCCCAGCTCCAAGAGGAGAAAGTGTATCAGTCTAGAGGGGAG
GAGGATGTGGGAGACATGGACCATGATGAAGAAGCACAATTTCAGATGCTGATGGACAGACTTGGAGCCC
AGAAAGTTCTGGAAGATGAAAGTGACGTCAGGCAGCTGTGGCTGCAGCTGAGGAAGGACGAGCCCCACCT
GCTGTCCAACTTCGAAGACCTCCTCACCACAATTTTTGCTCAGCTCCAAGAAGCCCATGAGCAGAAGAAC
GAACTGGAATGTGCCCTCAGAAAGAAAATTGCTGCTTACGATGAAGAAATCCAGCATCTCTATGAGGAGA
TGGAGCAGCAGATCAAAAGTGAGAGGGAGCAGTTCCTCCTGAAAGACACAGAGAGATTCCAGGCTCGCAG
CCGGGAGTTGGAAAAGAAGCTGAGCGCCAAGGAGCAGGAGCTGGAGCGACTCAATCAGAAGCAGAGGAAG
GTAGGCTACTGTGGAGACATCGTGGGCCCTCAGCTCTTCCAACTCAGCTTGCCTCTGCCTCACGCCCTCC
ACCATTCGTCCATGGATTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001033464

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Insert Size:	933 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:	NM_001033464.3, NP_001028636.1
RefSeq Size:	1094 bp
RefSeq ORF:	933 bp
Locus ID:	381812
UniProt ID:	Q3UP38
Cytogenetics:	6 F3
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 (By similarity).[UniProtKB/Swiss-Prot Function]

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