

Product datasheet for **SC337588**

Epac2 (RAPGEF4) (NM_001282899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epac2 (RAPGEF4) (NM_001282899) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAPGEF4
Synonyms:	CAMP-GEFII; CGEF2; EPAC; EPAC 2; EPAC2; Nbla00496
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001282899, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGGACTTCTGGCTCCTCCTTATGGTGTTATGGAAACGGGCTCTAACAAATGACAGGATTCTGACA
AGGAGAACACACCTCTCATTGAACCTCAGTTCCTCTTCGTCCTGCTAACACCATTACCAAGGTCCTTC
AGAGAAGATCCTCAGAGCTGGAAAAATTTACGAAATGCCATTCTCTCGAGCACCTCACATGATAAGA
GATAGAAAATACCACCTAAAGACATACAGACAATGCTGTGGGAACTGAACTGGTGGACTGGATGATGC
AGCAGACACCATGTGTTCACTCCCGACTCAAGCTGTTGGCATGTGGCAAGTCTGTTAGAAAGATGGTGT
TCTCAACCACGTGGACCAGGAGCACCATTTCGAAGACAAATATTTATTCTATCGATTTCTGGATGATGAG
CACGAGGATGCCCTTTGCCTACTGAGGAGGAGAAGAAGGAGTGTGATGAGGAGCTCCAGGACACCATGC
TGCTGCTGTACAGATGGGCCCGACGCCACATGAGGATGATCCTTCGCAAACCACTGGCCAGAGGAC
TGTGGATGACCTAGAGATTATCTATGAGGAGCTTCTTCATATTAAGCCTTATCCCATCTTTCTACCACA
GTGAAACGAGAGTTAGCAGGTGTTCTCATTTTTGAGTCTCACGCCAAAGGAGGGACTGTGTTGTTAAAC
AGGGGGAAGAAGGTACCTCCTGGTACATTATTCTAAAAGGATCAGTGAATGTAGTCATTTACGGCAAGGG
TGTGGTCTGCACCTGCATGAAGGAGATGACTTCGGCAAGTTAGCACTAGTGAATGATGCCCCACGAGCT
GCCTCTATCGTCTTACGAGAAGATAACTGCCATTTCTTAAGAGTAGACAAGGAGGATTTCAACCGGATCC
TAAGGGACGTGGAGGCGAATACAGTCAGACTTAAAGAACATGACCAAGATGTCTTGGTGTGGAGAAGGT
CCCAGCAGGGAACAGAGCTTCTAATCAAGGAACTCACAGCCTCAGCAAAAGTATACTGTGATGTCAGGA
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AAGAGCGAGTCAATCCGCTGGTCTACAGTGGGCTGCCATGTATGGAGACCTCTGCAAGAGGATGACG
TGTCTATGGCCTTCTGGAGGAGTTTTATGTATCTGTATCAGATGATGCCCGGATGATTGCTGCCCTCAA
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CACAAGTTCTTTTGCAACAGTTCAATACGGGCGATGAGAGAGCCAGAAGCGCCAGCCTATCCGCGGCT
CTGATGAAGTTCTGTTAAGGTCTATTGCATGGACCACACCTACACAACCATTCGGGTGCCAGTGGCCAC
TTCGGTGAAGGAAGTCACTAGTGCAGTTGCCGACAAGCTGGGCTCCGGGAGGGCCTGATCATAGTCAAG
ATGAGTCCGGAGGAGAAAAAGTGGTGTCAAACCTAATGATGTTTCAGTATTTACGACGCTCACCATTA
ATGGACGCTGTTGCTTGCCCCGAGAGCAATTCGATTCACTGACTCCCTTACCAGAACAGGAAGGCC
AACTGTTGGAACAGTGGGAACCTTTGAACTGATGAGCTCAAAGATTTAGCATACCAGATGACAATTTAT
GATTGGGAACCTTCAACTGCGTGCATGAGCTGGAGCTAATCTATCACACATTTGGAAGGCATAATTTTA
AAAAGACCACAGCAAACCTTGATTTGTTCTGAGGAGATTTAATGAAATTCAGTTTTGGTGTGCTACTGA
GATCTGCCTTTGTTCTCAGCTCAGCAAGCGTGTTCAGCTATTAAAAAATTTATTAAGATAGCAGCCAC
TGTAAGGAGTAAAAATCTGAATTCCTTTTTTGCCATCGTATGGGACTAAGTAACGTTGCTGTGAGCC
GCTTGGCACTAACGTGGGAGAACTGCCAAGCAAGTTCAGAAGTTCTATGCGGAGTTTGAAGTTAAT
GGACCTTCAAGGAACACAGGGCCTACAGGCTGACAGTAGCTAAGCTGGAACCTCCTCTCATCCCTTC
ATGCCTTTGCTCATTAAAGATATGACATTTACTCATGAGGGGAACAAGACGTTTCATTGACAATCTAGTAA
ACTTTGAAAAAATGCGCATGATTGCAAATACGGCCAGAACAGTGAGATACTACAGGAGCCCAACCTTCAA
TCCTGATGCAGCTCAAGCTAATAAGAACCATCAGGATGTCCGGAGTTATGTACGGCAATTAATGTGATT
GACAACCAGAGAACTTTATCACAGATGTACACAGATTAGAGCCTCGTCGACCATAG
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001282899

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:	<ol style="list-style-type: none">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_001282899.1, NP_001269828.1</u>
RefSeq Size:	3991 bp
RefSeq ORF:	2577 bp
Locus ID:	11069
UniProt ID:	<u>Q8WZA2</u>
Cytogenetics:	2q31.1
Protein Pathways:	Leukocyte transendothelial migration
Gene Summary:	<p>Guanine nucleotide exchange factor (GEF) for RAP1A, RAP1B and RAP2A small GTPases that is activated by binding cAMP. Seems not to activate RAB3A. Involved in cAMP-dependent, PKA-independent exocytosis through interaction with RIMS2 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in its 5' UTR, lacks several exons in the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (c) is shorter at the N-terminus, compared to isoform a.</p>