

Product datasheet for **SC316841**

Epac2 (RAPGEF4) (NM_001100397) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epac2 (RAPGEF4) (NM_001100397) Human Untagged Clone
Tag:	Tag Free
Symbol:	Epac2
Synonyms:	CAMP-GEFII; CGEF2; EPAC; EPAC 2; EPAC2; Nbla00496
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001100397, the custom clone sequence may differ by one or more nucleotides

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ATGCTCTACAAGAAATATCGACAGTATATGGCAGGACTTCTGGCTCCTCCTTATGGTGTT
ATGGAACGGGCTCTAACAATGACAGGATTCTGACAAGGAGAACACACCTCTCATTGAA
CCTCACGTTCTCTTCGTCTGTAACACCATTACCAAGTCCCTTCAGAGAAGATCCTC
AGAGCTGGAAAAATTTACGAAATGCCATTCTCTCTCGAGCACCTCACATGATAAGAGAT
AGAAAAATCCACCTAAAGACATACAGACAATGCTGTGTGGGAAGTGAAGTGGTGGACTGG
ATGATGCAGCAGACACCATGTGTTCACTCCCGACTCAAGCTGTTGGCATGTGGCAAGTC
CTGTTAGAAAGATGGTGTCTCAACCACGTGGACCAGGAGCACCATTTCCAAGACAATAT
TTATTCTATCGATTTCTGGATGATGAGCAGGAGGATGCCCTTTGCCTACTGAGGAGGAG
AAGAAGGAGTGTGATGAGGAGCTCCAGGACACCATGCTGCTGCTGCACAGATGGCCCC
GACGCCACATGAGGATGATCCTTCGCAAACCCTGGCCAGAGGACTGTGGATGACCTA
GAGATTATCTATGAGGAGCTTCTCATATTAAGCCTTATCCCATCTTTCTACCACAGTG
AAACGAGAGTTAGCAGGTGTTCTCATTTTTGAGTCTCACGCCAAAGGAGGGACTGTGTTG
TTTAACCGAGGGGAAGAAGGTACCTCCTGGTACATTATTCTAAAAGGATCAGTGAATGTA
GTCATTTACGGCAAGGGTGTGGTCTGCACCCTGCATGAAGGAGATGACTTCGGCAAGTTA
GCACTAGTGAATGATGCCCCACGAGCTGCCTCTATCGTCTTACGAGAAGATAACTGCCAT
TTCTTAAGAGTAGACAAGGAGGATTTCAACCGGATCCTAAGGGACGTGGAGGCGAATACA
GTCAGACTTAAAGAACATGACCAAGATGTCTTGGTGTGGAGAAGGTCCCAGCAGGGAAC
AGAGCTTCTAATCAAGGAAACTCACAGCCTCAGCAAAAGTATACTGTGATGTCAGGAACA
CCTGAAAAATTTTAGAGCATTTCTAGAAACAATACGCCTTGAGGCAACTTTAATGAA
GCAACAGATTCTGTTTTAAATGACTTTATTATGATGCACTGTGTTTTATGCCAAATACC
CAGCTTTGCCCGGCACTGGTGGCCACTACCACGCACAGCCTTCAAGGTACAGAACAG
GAGAAAAATGGATTATGCCCTCAACAATAAGAGGGGAGTCAATCCGCCTGGTCTACAGTGG
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AAGGTTCTTTGCAACAGTTCAATACGGGCGATGAGAGAGCCAGAAGCGCCAGCCTATC
CGCGGCTCTGATGAAGTCTGTTAAGGTCTATTGCATGGACCACACCTACACAACCATT
CGGGTGCCAGTGGCCACTTCGGTGAAGGAAGTCATCAGTGCAGTTGCCGACAAGTGGGC
TCCGGGGAGGGCCTGATCATAGTCAAGATGAGTCCGGAGGAGAAAAGGTGGTGTCAA
CCTAATGATGTTTCAGTATTTACGACGCTCACCATTAATGGACGCTGTTTGCTTGCCCC
CGAGAGCAATTCGATTCAGTACTGCCCTTACCAGAACAGGAAGGCCAACTGTTGGAACA
GTGGGAACTTTTGAACTGATGAGCTCAAAGATTTAGCATACCAGATGACAATTTATGAT
TGGGAACCTTCAACTGCGTGCATGAGCTGGAGCTAATCTATCACACATTTGGAAGGCAT
AATTTTAAAAAGACCACAGCAAACCTGGATTTGTTCTCAGGAGATTTAATGAAATTCAG
TTTTGGTTCGTCAGTCTGCTTTGTTCTCAGCTCAGCAAGCGTGTTCAGCTATTA
AAAAATTTTAAAGATAGCAGCCCACTGTAAGGAGTATAAAAACTGAATTCCTTTTTT
GCCATCGTCATGGGACTAAGTAACGTTGCTGTGAGCCGCTTGGCACTAACGTGGGAGAAA
CTGCCAAGCAAGTTCAAGAAGTTCTATGCGGAGTTTAAAAGTTTAAATGGACCTTCAAGG
AACCACAGGGCCTACAGGCTGACAGTAGCTAAGCTGGAACCTCCTCTCATCCCCTTCATG
CCTTTGCTCATTAAAGATATGACATTTACTCATGAGGGGAACAAGACGTTATTGACAAT
CTAGTAACTTTGAAAAATGCGCATGATTGCAAATACGGCCAGAACAGTGAGATACTAC
AGGAGCCAACCTTCAATCCTGATGCAGCTCAAGCTAATAAGAACCATCAGGATGTCGG
AGTTATGTACGGCAATTAATGTGATTGACAACCAGAGAAGCTTTATCACAGATGCACAC
AGATTAGACCTCGTCGACCA
    
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Restriction Sites: Please inquire
ACCN: NM_001100397

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001100397.1</u> , <u>NP_001093867.1</u>
RefSeq Size:	4120 bp
RefSeq ORF:	2604 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 (2) differs in its 5' UTR, lacks several exons in the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.</p>