

Product datasheet for **SC127722**

Epac2 (RAPGEF4) (NM_007023) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epac2 (RAPGEF4) (NM_007023) Human Untagged Clone
Tag:	Tag Free
Symbol:	Epac2
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_007023, the custom clone sequence may differ by one or more nucleotides

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ATGGTCGCTGCGCAGCTGCCATTCTCTCCTCTGCCGAGTGGATCGCCTGCCTGGATAAAAGACCAC
TGGAGCGATCCAGCGAAGATGTGGATAAATCTCACTCGACTGAAAGAAGTTAAAGCTTTTGAGAAATT
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AATGCTGTGTGGAACTGAAGTGGTGGACTGGATGATGCAGCAGACACCATGTGTTCACTCCCGGACTCA
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CATGAGGATGATCCTTCGCAAACACCTGGCCAGAGGACTGTGGATGACCTAGAGATTATCTATGAGGAG
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GCGATGAGAGAGCCCAGAAGCGCCAGCCTATCCGCGGCTCTGATGAAGTTCTGTTAAGGTTCTATTGCAT
GGACCACACTACACAACCATTCCGGTGGCAGTGGCCACTTCGGTGAAGGAAGTCATCAGTGCAGTTGCC
GACAAGCTGGGCTCCGGGGAGGGCTGATCATAGTCAAGATGAGTTCCGGAGGAGAAAAGGTGGTGTCTCA
AACCTAATGATGTTTTAGTATTTACGACGCTCACCATTAAATGGACGCCTGTTTGTCTGCCGCGAGAGCA
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CAAGTTCAAGAAGTTCTATGCGGAGTTTAAAGTTAATGGACCTTCAAGGAACACAGGGCTACAGG
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CTCATGAGGGGAACAAGACGTTTATTGACAATCTAGTAACTTTGAAAAATGCGCATGATTGCAAATAC
GGCCAGAACAGTGAATACTACAGGAGCCAACCTTCAATCCTGATGCAGCTCAAGCTAATAAGAACCAT
CAGGATGTCCGGAGTTATGTACGGCAATTAATGTGATTGACAACAGAGAACTTATCACAGATGTCAC
ACAGATTAGACCTCGTCGACCATAG
    
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Chromatograms: https://cdn.origene.com/chromatograms/ja1939_c06.zip

Restriction Sites:	NotI-NotI
ACCN:	NM_007023
Insert Size:	4640 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	NM_007023.1 , NP_008954.1
RefSeq Size:	4278 bp
RefSeq ORF:	3036 bp
Locus ID:	11069
UniProt ID:	Q8WZA2
Cytogenetics:	2q31.1
Domains:	DEP, cNMP, RasGEFN, RasGEF
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 (1) represents the longest transcript and encodes the longest isoform (a).</p>