

Product datasheet for **SC327659**

RAGEF2 (RAPGEF6) (NM_001164390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAGEF2 (RAPGEF6) (NM_001164390) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAGEF2
Synonyms:	KIA001LB; PDZ-GEF2; PDZGEF2; RA-GEF-2; RAGEF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001164390, the custom clone sequence may differ by one or more nucleotides

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ATGAACTACCCGTGGACCTGGCGCTAGGCAGGCGTTGAGGAAGAAGCCACCCGAGCGG
ACTCCCGAGGACTTAAATACTATTTATTCTTATCTTCATGGAATGGAAATATTATCAAAT
CTCAGGGAACATCAGCTTAGATTAATGTCTGCAAGAGCACGCTATGAGAGATACAGTGGC
AATCAGGTTCTCTTTTGTTCAGAAACGATTGCCAGATGTTGGTATATCCTACTTTCTGGA
TCTGTGCTTGTGAAAGGCTCCATGGTCTTGCTCCTTGCAAGTTTGGTAAGCAGTTTGA
GGAAAAAGAGGATGTGATTGTCTTGATTAGAGCCTTCAGAAATGATTGTGGTAGAAT
GCCAAAGATAATGAAGATAGTATTCTACAAAGAGAAATCCTGCCAGACAATCCCGAAGA
AGATTTTCGAAAAATTAATAAAGGAGAGCGCCAAACCATTACTGATGATGTGGAGGTT
AACAGCTATCTTTCTCTCCAGCTGATCTTACCAAGATGCATCTCACAGAAAACCTCAT
CCACAGGTGACTCATGTGTCTTCTAGTCAGTCTGGTTGTAGCATTGCCAGTGAATCTGGA
AGCAGCAGTTTATCTGATATCTATCAGGCTACGGAGAGTGAGGTAGGAGATGTAGATTTG
ACACGTCTTCCAGAAGGACCTGTTGATTCTGAGGATGACGAAGAGGAAGATGAAGAGATT
GATCGAACAGATCCATTGCAGGGGCGAGATCTTGTTTCGAGAATGTCTGAAAAAGAACCT
GCAGACAAAACATGATGATGACATTGAACAATTGCTGGAGTTTATGCACCAGCTCCCTGCA
TTTGCAAAACATGACCATGTCTGTAAGGAGAGAACTCTGCTCAGTGATGATTTTTGAAGTG
GTAGAGCAGGCTGGAGCTATTATTCTTGAAGATGGGCAAGAGCTTGACTCATGGTATGTT
ATTTTAAACGGCACTGTGGAAATCAGTCATCCAGATGGAAAGTTGAAATTTGTTTATG
GGAAATAGTTTTGGAATTACTCCCACTCTGGATAAGCAGTACATGCATGGAATTGTCAGG
ACTAAAGTAGATGATTGTGAGTTTGTCTGCATAGCCCAGCAAGATTATTGGAGAATTTTA
AACCATGTGGAAGAAAAATACCCATAAAGTTGAGGAAGAGGAGAAATGTTATGTTACAT
GAGCATCGGGAAGTACACCGGAGTGGAACAGGAAAGGACACATTGTGATCAAGGCAACA
CCTGAGCGTCTCATAATGCATTTAATAGAAGAACATTCCATCGTGGATCCAACTTATATA
GAAGATTTTCTATTAACCTACAGGACATTTCTTGAAAGTCCTTTGGATGTTGGGATCAAA
CTATTGGAATGGTTTAAAGATCGACAGCTTAAGAGATAAGGTGACACGGATTGTATTATTA
TGGGTAATAATCATTTTAAATGATTTTGAAGGTGACCCTGCTATGACTCGATTTCTAGAG
GAATTTGAAAAAATCTGGAAGATACAAAGATGAATGGTCATCTCCGTTATTGAATATT
GCCTGTGCTGCAAAGGCTAAGTGGAGACAGGTTGTGCTGCAAAAGGCTTCCCGCAGTCC
CCTCTACAATTCAGCCTTAATGGAGGGAGTGAGAAGGGATTTGGTATTTTGTGGAAGGA
GTAGAACCTGGTAGCAAAGCTGCTGATTGAGGACTGAAACGTGGTGATCAGATTATGGAA
GTAAATGGACAAAACCTTTGAGAATATTACATTTATGAAAGCCGTTGAAATTTTGAGGAAT
AATACTCATCTTGCACTTACTGTGAAGACCAACATTTTGTGTTCAAAGAGTTACTTTTT
AGGACTGAACAAGAGAAATCTGGTGTTCTCATATTCCCAAAATGCTGAAAAAAAAGT
AATCGCCATTCTATCCAGCATGTGCCAGGAGATATTGAACAGACATCACAGGAGAAAGGA
AGTAAGAAAGTTAAAGCAAATACTGTTTCAGGTGGAAGAAACAAATCAGGAAGATTTTG
GATAAAACACGATTTAGTATCTTGCTCCAAAGCTATTTAGTGATGGAGGCCTAAGCCAA
TCACAAGATGACAGCATTGTGGGAACAAGGCACTGTAGGCATAGTCTGGCTATAATGCC
ATCCCTGGAACACTCTCATCCAGCAGCCTGATCTCCTGCAGCCTACCACCAGTATGTTG
GATTTTTCCAATCCTTCAGATATCCCTGATCAAGTTATAAGAGTTTTCAAAGTGGAATCAG
CAAAGTTGCTACATTATCATCAGTAAAGACACCACAGCTAAAGAAGTAGTTTTTCTGCT
GTTTCATGAATTTGGTTTGACCGGTGCATCCGACACATATTCTCTGTGAAGTTTCTGTT
ACTCCTGAGGGTGTCAAAAACAGAGAAGACTTCCAGATCAGTTCTCAAATTAGCTGAT
AGAATTCAACTCAATGGAAGG

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Restriction Sites: Please inquire

ACCN: NM_001164390

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:	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_001164390.1, NP_001157862.1</u>
RefSeq Size:	3127 bp
RefSeq ORF:	2484 bp
Locus ID:	51735
UniProt ID:	<u>Q8TEU7</u>
Cytogenetics:	5q31.1
Gene Summary:	Guanine nucleotide exchange factor (GEF) for Rap1A, Rap2A and M-Ras GTPases. Does not interact with cAMP.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (6) differs in the 3' UTR and lacks a significant portion of the 3' coding region, compared to variant 1. This results in a protein (isoform 6) that maintains the reading frame but is shorter at the C-terminus, compared to isoform 1.