

Product datasheet for **SC325332**

MyoGEF (PLEKHG6) (NM_001144856) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MyoGEF (PLEKHG6) (NM_001144856) Human Untagged Clone
Tag:	Tag Free
Symbol:	MyoGEF
Synonyms:	MyoGEF
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001144856, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGCCTTTGGTCTCCACATGAGGGCCCCCTCCAAGGACTCGTGGCCTCCCGCATT
GAGACTTATGGGGGCCGGCATCGAGCCTCTGCTCAGAGCACTGCTGGCAGACTCTATCCC
CGAGGATACCTGTGCTGGATCCAGTCGCCGACGCCCTCCAGCAGTATGTCCCTTTGCC
AGGGTTCTTGGCCAGGCCCGAGGCTGTACCCATGAGACTGCGAGATCCAGAGCCCGAG
AAGAGGCACGGGGCCATGTGGGGGCTGGCCTGCTTCACTCCCCAACTCAAGGAATC
ACCAAGGCCCATGAGCTGGAGGTGAGGCTGCACACTTTCAGCATGTTTGGGATGCCCGG
CTGCCCCCTGAGGACCGCGGCACTGGGAGATAGGAGAGGGTGGCGACAGTGGCCTGACC
ATCGAGAAGTCTGGAGGGAGCTGGTGCCTGGGCACAAGGAGATGAGCCAGGAGCTCTGC
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AAGATCATGACTGATCTGCTAGCCGCCGGCCTGCTGAACCTGCAGCGAGTGGGACTGCTG
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AGCTTTTGGGATGAGGTGCTGGGGCCACCCTGGAGGAGACTCGGGCCTCGGGCCAGCCT
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GTCCAGTACTGCCTCCGAGTGAAGCAGACCATGGCTTACGCCCGAGAACAGCAAGAACT
AACCCTCTCTTCATGCCTTCGTGCACTGGTGTGAGAAGCACAAGCGCTCTGGGAGGCAG
ATGCTCTGTGACTTGCTTATCAAGCCCCACCAGCGCATCACCAAGTACCACTGCTGCTC
CATGCTGTGCTCAAGAGGAGCCCCGAGGCACGAGCCCAAGAGGCCCTGAATGCCATGATT
GAAGCCGTGGAGTCATTCTGCGACACATCAATGGGCAGTCCGCCAGGGCGAAGAGCAA
GAGAGCTTGGCGGCTGCAGCACACGCATCGGGCCCTACGAGGTGCTGGAGCCACCCAGT
GATGAGGTGGAGAAGAACCTGCGCCATTCTCCACCCTGGACCTGACGTCCCCCATGCTG
GGGGTTGCATCTGAGCACACCAGACAGCTGCTGCTGGAGGGGCTGTGCGAGTGAAGGAG
GGACGAGAAGGGAAGCTGGACGTGTACCTGTTCTCTTCTCTGATGTGCTCCTTGTGACC
AAGCCCCAGCGCAAGGGCGACAAGCCAAGGTATCCGACCCCTCTCATGCTGGAGAAG
CTCGTGTGCCAACCCCTGCGAGACCCCAACAGCTTCTGCTGATCCACCTCACTGAATTC
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CTGGAGAAGACCCAGCAGGCCAGGCCGCCCTACAGAAGCTGAAGGCAGAGGAGTATGTT
CAACAGAAGAGGGAGCTCCTGACCCTCTATCGGGACCAGGACAGGGAGTCCCCCAGCACC
AGGCCCTCCACGCCTTCCCTGGAGGGCTCTCAGAGCAGCGCAGAGGGGAGGACTCCTGAG
TTCTCGACCATATCCCCACCTGGTGGTGACAGAAGACACAGATGAAGATGCTCCCTT
GTGCCAGATGATACCTCAGACTCTGGCTACGGCACTTTGATCCCAGGCACCCCAAGGGG
TCCCGCTCCCCACTGAGCCGTCTACGCCAAGAGCCCTTCGGCGGGACCCCTCGCCTCACC
TTCTCCACCCTGGAACCTCCGGGACATCCCTCTGCGTCCCCACCCTCCCGACCCCAAGCT
CCTCAACGCCGAAGCGCCCCGAAGTCCCGGAAGGAATCCTAAAAGGAGGAGTCTTCCC
CAGGAAGACCCACCACTGGTCTGAGGAAGAAGATGGGGCTCCGAGCGAGGGAATGTG
GTGGTGGAAACTCCACAGGGCCCGGCTTCGGGGCCAGCTTCCCTCCTCCCCAACCCAT
GCTGACTCTGCCGGGAAAGCCCTGGGAGTCTCAGGGGAGGAGGAAGAAGAGGGGCT
CTGTTCTGAAAGCTGGCCACACATCCCTGCGCCCAATGCGGGCTGAGGACATGCTCAGA
GAGATCCGGGAGGAGCTGGCCAGCCAAAGATTGAGGGGGCCGAGGAGCCCGGGACAGC
AGGCCACGGAAGCTGACTCGGGCCAGTGCAGAGGATGCGGGGGCCCCACATCATTAG
CTGGACACCCCTCTGTCCGCATCAGAGGTA

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Restriction Sites: Please inquire

ACCN: NM_001144856

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:	NM_001144856.1 , NP_001138328.1
RefSeq Size:	2981 bp
RefSeq ORF:	2373 bp
Locus ID:	55200
UniProt ID:	Q3KR16
Cytogenetics:	12p13.31
Gene Summary:	Guanine nucleotide exchange factor activating the small GTPase RHOA, which, in turn, induces myosin filament formation. Also activates RHOG. Does not activate RAC1, or to a much lower extent than RHOA and RHOG. Part of a functional unit, involving PLEKHG6, MYH10 and RHOA, at the cleavage furrow to advance furrow ingression during cytokinesis. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with EZR, required for normal macropinocytosis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (a).