

Product datasheet for **SC326224**

MyoGEF (PLEKHG6) (NM_001144857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MyoGEF (PLEKHG6) (NM_001144857) Human Untagged Clone
Tag:	Tag Free
Symbol:	MyoGEF
Synonyms:	MyoGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC326224 representing NM_001144857
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGATGCAGGCTGCACGCCCTGGGGAGAAGGCTGCACATGATCCAGTCGCCGACGCCCTCCAGCAGT
 ATGTCCCCTTTGCCAGGGGTTCTGGCCAGGCCCGAGGCTGTCACCCATGAGACTGCGAGATCCAGAGCC
 CGAGAAGAGGCACGGGGGCCATGTGGGGCTGGCTGTTCACTCCCCAACTCAAGGAACTCACCAAG
 GCCCATGAGCTGGAGGTGAGGCTGCACACTTTCAGCATGTTTGGGATGCCCGGCTGCCCTGAGGACC
 GGCGGCACTGGGAGATAGGAGAGGGTGGCGACAGTGGCTGACCATCGAGAAGTCTGGAGGGAGCTGGT
 GCCTGGGCACAAGGAGATGAGCCAGGAGCTCTGCCACCAACAGGAGGCCCTGTGGAGCTCTGACCACC
 GAGCTGATCTACGTGAGAAAGCTCAAGATCATGACTGATCTGCTAGCCGCCGGCTGCTGAACCTGCAGC
 GAGTGGGACTGCTGATGGAAGTGTGAGTGCAGCTGAGACCCTGTTTGGAAATGTCCCAGCCTGATTGAAACCA
 CCGGAGCTTTTGGGATGAGGTGCTGGGGCCACCCTGGAGGAGACTCGGGCTCGGGCCAGCCTCTGGAC
 CCCATTGGTCTGCAAAAGTGGCTTCTGACGTTTGGCCAGCGGTTCCACCCTATGTCCAGTACTGCCTCC
 GAGTGAAGCAGACCATGGCTTACGCCCGAGAACAGCAAGAACTAACCTCTCTTCCATGCCTTCGTGCA
 GTGGTGTGAGAAGCACAAGCGCTCTGGGAGGCAGATGCTCTGTGACTTGCTTATCAAGCCCCACAGCGC
 ATCACCAAGTACCCACTGCTGCTCCATGCTGTGCTCAAGAGGAGCCCCGAGGCACGAGCCCAAGAGGCC
 TGAATGCCATGATTGAAGCCGTGGAGTCATTCTGCGACACATCAATGGGAGGTCCGCCAGGGCGAAGA
 GCAAGAGAGCTTGGCGGCTGCAGCACAACGCATCGGGCCCTACGAGGTGCTGGAGCCACCCAGTATGAG
 GTGGAGAAGAACCTGCGCCATTCTCCACCCTGGACCTGACGTCCTCCCATGCTGGGGTTGCATCTGAGC
 ACACGACAGCTGCTGCTGGAGGGGCTGTGCGAGTGAAGGAGGGACGAGAAGGGAAGCTGGACGTGTA
 CCTGTTCTCTTCTCTGATGTGCTCCTTGTGACCAAGCCCCAGCGCAAGGCGGACAAAGCCAAGGTCATC
 CGACCCCTCTCATGCTGGAGAAGCTCGTGTGCCAACCCTGCGAGACCCCAACAGCTTCTCTGCTGATCC
 ACCTCACTGAATTCAGTGTGTCTCCAGCGCCCTCCTTGTGACTGTCCAGTCTACAGACCGTGCCCA
 GTGGCTGGAGAAGACCCAGCAGGCCCGGCCCTACAGAAGCTGAAGGCAGAGGAGTATGTTCAACAG
 AAGAGGGAGCTCTGACCCTCTATCGGGACCAGGACAGGGAGTCCCCAGCACCAGGCCCTCCACGCCTT
 CCCTGGAGGGCTCTCAGAGCAGCGCAGAGGGGAGGACTCTGAGTTCTCGACCATTATCCCCACCTGGT
 GGTGACAGAAGACACAGATGAAGATGCTCCCTTGTGCCAGATGATACCTCAGACTCTGGCTACGGCACT
 TTGATCCCAGGCACCCACGGGTCCCGCTCCCACTGAGCCGTCTACGCCAAAGAGCCCTTCGGCGGG
 ACCCTCGCTCACCTTCTCCACCCTGGAACCTCCGGGACATCCCTCTGCGTCCCCACCCTCCGACCCCA
 AGCTCCTCAACGCCGAAGCGCCCCGAACCTGCCGAAGGAATCCTAAAAGGAGGAGTCTTCCCCAGGAA
 GACCCACCAACCTGGTCTGAGGAAGAAGATGGGGCTCCGAGCGAGGGAATGTGGTGGTGGAAACACTCC
 ACAGGGCCCGGCTTCGGGGCCAGCTTCCCTCTCCCAACCCATGCTGACTCTGCCGGGGAAGCCCTG
 GGAGTCTCAGGGGAGGAGGAAGAAGAGGGGCTCTGTTCTGAAAGCTGGCCACACATCCCTGCGCCCA
 ATGCGGGCTGAGGACATGCTCAGAGAGATCCGGGAGGAGCTGGCCAGCCAAAGGATTGAGGGGGCCGAGG
 AGCCCCGGGACAGCAGGCCACGGAAGCTGACTCGGGCCAGCTGCAGAGGATGCGGGGGCCCCACATCAT
 TCAGCTGGACACCCCTCTGTCCGCATCAGAGGTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Please inquire
ACCN: NM_001144857

OTI Disclaimer:	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. 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
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_001144857.1 , NP_001138329.1
RefSeq Size:	3149 bp
RefSeq ORF:	2277 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 (3) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting protein (isoform b) has a shorter and distinct N-terminus, compared to isoform a.