

Product datasheet for **SC304566**

MyoGEF (PLEKHG6) (NM_018173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MyoGEF (PLEKHG6) (NM_018173) 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: >SC304566 representing NM_018173.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGC
ATGAAGGCCTTTGGTCTCCACATGAGGGCCCCCTCCAAGGACTCGTGGCCTCCCGATTGAGACTTAT
GGGGCCCGGCATCGAGCCTCTGCTCAGAGCACTGCTGGCAGACTCTATCCCGAGGATACCTGTGCTG
GATCCCAGTCGCCGACGCCCTCCAGCAGTATGTCCCTTTGCCAGGGTTCTGGCCAGGCCCGAGGCCTG
TCACCCATGAGACTGCGAGATCCAGAGCCGAGAAGAGGCACGGGGGCCATGTGGGGCTGGCCTGCTT
CACTCCCCAACTCAAGGAACACCAAGGCCATGAGCTGGAGGTGAGGCTGCACACTTTCAGCATG
TTTGGGATGCCCCGGCTGCCCTGAGGACCGCGGCACTGGGAGATAGGAGAGGGTGGCAGAGTGGC
CTGACCATCGAGAAGTCTGGAGGGAGCTGGTGCCTGGGCACAAGGAGATGAGCCAGGAGCTTGCCAC
CAACAGGAGGCCCTGTGGGAGCTCTGACCACCGAGCTGATCTACGTGAGAAAGCTCAAGATCATGACT
GATCTGCTAGCCCGGCCCTGCTGAACCTGCAGCGAGTGGGACTGCTGATGGAAGTGTAGCTGAGACC
CTGTTTGAAATGTCCCAGCCTGATTCGAACCCACCGAGCTTTTGGGATGAGGTGCTGGGGCCACC
CTGGAGGAGACTCGGGCCTCGGGCCAGCCTCTGGACCCATTGGTCTGCAAAGTGCTTCTGACGTTT
GGCCAGCGGTTCCACCCCTATGTCCAGTACTGCCTCCGAGTGAAGCAGACCATTGGCTTACGCCGAGAA
CAGCAAGAACTAACCCTCTCTCCATGCCTTCGTGCACTGGTGTGAGAAGCACAGCGCTCTGGGAGG
CAGATGCTCTGTGACTTGCTTATCAAGCCCCACCGCGCATCACCAAGTACCCACTGCTGCTCCATGCT
GTGCTCAAGAGGAGCCCCGAGGCACGAGCCCAAGAGGCCCTGAATGCCATGATTGAAGCCGTGGAGTCA
TTCCTGCGACACATCAATGGGCAAGTCCGCCAGGGCGAAGAGCAAGAGAGCTTGGCGGCTGCAGCACA
CGCATCGGGCCCTACGAGGTGCTGGAGCCACCCAGTGTAGAGTGGAGAAGAACCTGCGCCCATTTCTCC
ACCTTGGACCTGACGTCCCCATGCTGGGGTTGCATCTGAGCACACCAGACAGCTGCTGTGGAGGGG
CCTGTGCGAGTGAAGGAGGGACGAGAAGGGAAGCTGGACGTGTACCTGTTCTCTCTGATGTGCTC
CTGTGTACCAAGCCCCAGCGCAAGGCGGACAAAGCCAAGTGTATCCGACCCCTCTCATGCTGGAGAAG
CTCGTGTGCCAACCCCTGCGAGACCCCAACAGCTTCTGCTGATCCACCTCACTGAATTCAGTGTGTC
TCCAGCGCCCTCCTTGTGCACTGTCCCAGTCTACAGACCGTGCCAGTGGCTGGAGAAGACCCAGCAG
GCCCAGGCCGCCCTACAGAAGCTGAAGGCAGAGGAGTATGTTCAACAGAAGAGGGAGCTCCTGACCTC
TATCGGGACAGGACAGGAGTCCCCAGCACCAGGCCCTCCACGCTTCCCTGGAGGGCTCTCAGAGC
AGCGCAGAGGGGAGGACTCCTGAGTTCTCGACCATTATCCCCACCTGGTGGTGACAGAAGACACAGAT
GAAGATGCTCCCCTTGTGCCAGATGATACCTCAGACTCTGGCTACGGCACTTTGATCCCAGGCACCCCC
ACGGGGTCCCCTCCCCACTGAGCGCTCTACGCCAAAGAGCCCTTCGGCGGGACCCCTCGCCTCACCTTC
TCCACCTTGAACTCCGGGACATCCCTCTGCGTCCCCACCTCCCGACCCCAAGCTCCTCAACGCCGA
AGCGCCCCCAACTGCCGAAGGAATCCTAAAAGGAGGAGTCTTCCCAGGAAGACCCACCAACCTGG
TCTGAGGAAGAAGATGGGGCCTCCGAGCGAGGGAATGTGGTGGTGGAAACTCCACAGGGCCCGGCTT
CGGGGCCAGCTTCCCTCCTCCCCAACCCATGCTGACTCTGCCGGGAAAGCCCTGGGAGTCTCAGGG
GAGGAGGAAGAAGAGGGGCTCTGTTCTGAAAGCTGGCCACACATCCCTGCGCCCAATGCGGGCTGAG
GACATGCTCAGAGATCCGGGAGGAGCTGGCCAGCCAAAGATTGAGGGGGCCGAGGAGCCCGGGAC
AGCAGGCCACGGAAGCTGACTCGGGCCAGCTGCAGAGGATGCGGGGGCCCCACATCATTCAGCTGGAC
ACCCCTCTGTCCGCATCAGAGGTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: SgfI-MluI
ACCN: NM_018173
Insert Size: 2373 bp

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_018173.3</u>
RefSeq Size:	2899 bp
RefSeq ORF:	2373 bp
Locus ID:	55200
UniProt ID:	<u>Q3KR16</u>
Cytogenetics:	12p13.31
MW:	89 kDa
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 (1) represents the shortest transcript but encodes the longer isoform (a). Variants 1 and 2 encode the same isoform.