

Product datasheet for **MC219724**

Arhgef25 (NM_028027) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef25 (NM_028027) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef25
Synonyms:	2410008H17Rik; D10Ertd610e; GEFT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219724 representing NM_028027
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCCCCGACCGCCCCACCCTGGCCGACTGACCGGATACTGGGGTTCATGGTGGCATGCTGC
 GCGCATGCGCCGTACCCGGCAGGAGGGGCCCCGGAGAGAGATCCCTTAGGGCCTGGGAGTACCAAGAC
 AGAGAGTGATTGTATCGAGGAGGATCAGACAGGGCAGCGGAACCTGAGGTCCTCGCTGGGCTCCGACG
 CCCGAATCCTATTCTATTGCCGTCAGTGAGGGGAGCATGTGAGCGTCTGCTGCTCGGGGCTGGTGCC
 TGTCTGGCCCCAGCTCTGGCCTCAGCTCTGATCCGTGTTCTCCGATTCGCCCTGGACCAGTAAGTGGCT
 GAGGAGATGGTTGGATCATTCCAACATTGTCTCAGTGTGAAACTGAGGCAGAGAGTGGTCAGACCGGA
 CAATGTGAGAAGTGGACGCTGGAGCCAACCTTAACCACAGGACAAGAGCTGCCGAAGTACCTTACTGA
 CTACATTGCTGGAGGGTCTGGAGACAAGGCACAGCCAGCTGAAGAGGAACTTTGTCCCAAGCTCCAA
 GAATGAGGAAGAGCAGAAGAAGATGGCTCTGAAAGGAGTATGTTTGTCTGGGTGAGCTGGTGGAAACA
 GAAAGAACATATGTGGACGACTTGGGACAGATCGTAGAGGGTTACATGGCTACCATGGCTACTCAGGGGG
 TACCTGAGAGTCTCCGAGGTCGTGACAGGATTGTTTGGGAACATTCAGCAGATCTATGAGTGGCACCG
 AGACTACTTCTGCAGGAGCTGCAGCAGTGTGAAAGATCCCGATTGGTTGGCTCAGCTGTTTATCAAA
 CATGAGCGCCGACTGCATATGTATGTGGTGTACTGCCAGAATAAACCCAAGTCAAGAGCATGTGCTGTGAG
 AGTTTGGGGACAGCTACTTTGAGGAGCTGAGGCAGCAGCTGGGACACCGACTGCAGCTCAATGACCTCCT
 CATTAAACCAGTGCAGCGAATCATGAAATACCAGTTGCTGCTGAAGGATTTTCTAAAGTATTACAGAAGA
 GCTGGGAAGGATACTGAAGAGCTGGAGCAAGCTGTGGAGGTCATGTGTTTCGTACCTAAGCGATGCAATG
 ATATGATGTCCTGGGGAGACTTCGGGGATTTGAGGGAAAACTGACTGCTCAGGGGAAGCTTTGGGCCA
 GGACACATTCCTGGTTACAGAGCCTGAAGCTGGGGTCTGCTTTCTCCGGGGTCCGGGAGAGCGGTGTC
 TTCTGTTTCGAGCAAATCATCATCTTCACTGAGGCCCTGGGAGGAGGAGCCGAGGTGGCCGCGAGCCTG
 GCTACGTGTACAAGAACAGCATCAAGGTGAGCTGCCTAGGGCTGGAGGGGAATCTCCAAGCAACCCCTTG
 CCGGTTTTCGCTGACCTCTAGAGGGCCAGAAGGTGGATCCAGCGCTACGTTCTGCAGGCTTCAGACCT
 GCTGTCAGTCAAGCCTGGATAAAGCAAGTGGCCAGATCCTGAAAGCCAGCGTGACTTTCTCAACGCAT
 TACAGTACCCATTGAATACCAGAGACGTGAGAGCCAGACCAATAGCCTGGGGCAGCAGGAGGGCCTTG
 GGTAGGGAGCCCTGGGAGAATGCGGCCTGGAGACCTGGCCAGGCCAGCATGCACACACCCATCAATGGC
 TCTCTCCCTTCCCTGCTACTTCTGCCAGAGGGGAGGTGTCCAGAGTGTGTTGCCCTGGATACACAGG
 CTCTCAGTGATACCCCCAGACTCCTCATGACTCTCCAGCCCTCCCACTGTGAACACTCCTCCCTGTCA
 GGCCAGGCTCGCCAAGCTGGATGAAGATGAGCT**GTAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028027

Insert Size: 1857 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).

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_028027.3](#), [NP_082303.2](#)

RefSeq Size: 2261 bp

RefSeq ORF: 1857 bp

Locus ID: 52666

UniProt ID: [Q9CWR0](#)

Cytogenetics: 10 74.5 cM

Gene Summary: May play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. It works as a guanine nucleotide exchange factor for Rho family of small GTPases. Links specifically G alpha q/11-coupled receptors to RHOA activation (By similarity). May be an important regulator of processes involved in axon and dendrite formation. In neurons seems to be an exchange factor primarily for RAC1. Involved in skeletal myogenesis.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).