

## Product datasheet for **MC219625**

### Arhgef25 (NM\_001166413) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef25 (NM_001166413) 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:** >MC219625 representing NM\_001166413  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCAGTCGCAAGGATCCATAAATTCAGTTACGAGGGCCATATGCCAAGTTCTGGTTGACGCTTTCA  
 GACCCCGGAGAGAGATCCCTTAGGGCCTGGGAGTACCAAGACAGAGAGTGATTGTATCGAGGAGGATCA  
 GACAGGGCAGCGCAACCTGAGGTCTCGCTGGGCTCCGACGCCGAATCCTATTCTATTGCGCTCAGT  
 GAGGGGAGCATGTGAGCGTCTGCTGCTCGGGGCTGGCTGCCCTGTCTGGCCCCAGCTCTGGCCTCAGT  
 CTGATCCGTGTTCTCCGATTCGCCCTGGACCAGTAAGTGGCCTGAGGAGATGGTTGGATCATTCCAAACA  
 TTGTCTCAGTGTGAAACTGAGGCAGAGAGTGGTCAGACCGGACAATGTGAGAACTGGACGCTGGAGCCA  
 ACTTTAACACAGGACAAGAGCTGCCCGAACTGACCTTACTGACTACATTGCTGGAGGGTCTGGAGACA  
 AGGCACAGCCAGCTGAAGAGGAACTTTGTCCCAAGCTCCAAGAATGAGGAAGAGCAGAAGAAGATGGC  
 TCTGAAAAGGAGTATGTTTGTCTGGGTGAGCTGGTGGAAACAGAAAGAACATATGTGGACGACTTGGGA  
 CAGATCGTAGAGGGTTACATGGCTACCATGGCTACTCAGGGGGTACCTGAGAGTCTCCGAGGTCTGACA  
 GGATTGTGTTGGGAACATTCAGCAGATCTATGAGTGGCACCGAGACTACTTCTGCAGGAGCTGCAGCA  
 GTGTTTGAAGATCCCGATTGGTTGGCTCAGCTGTTTCAAAACATGAGCGCCGACTGCATATGTATGTG  
 GTGACTGCCAGAATAAACCCAAGTCAGAGCATGTGCTGTGAGAGTTGGGGACAGCTACTTTGAGGAGC  
 TGAGGCAGCAGCTGGGACACCGACTGCAGCTCAATGACCTCCTCATTAAACCAGTGCAGCGAATCATGAA  
 ATACCAGTTGCTGCTGAAGGATTTCTAAAGTATTACAGAAGAGCTGGGAAGGATACTGAAGAGCTGGAG  
 CAAGCTGTGGAGGTGATGTTTTCGTACCTAAGCGATGCAATGATATGATGTCCCTGGGGAGACTTCGGG  
 GATTTGAGGGAAAACGACTGCTCAGGGGAAGCTTTGGGCCAGGACACATTCTTGGTTACAGAGCCTGA  
 AGCTGGGGGTCTGCTTTCTCCCGGGTCCGGGAGAGCGTGTCTTCTGTTTCGAGCAAATCATCATCTTC  
 AGTGAGGCCCTGGGAGGAGGAGCCGAGGTGGCGCGCAGCCTGGCTACGTGTACAAGAACAGCATCAAGG  
 TGAGCTGCCTAGGGCTGGAGGGGAATCTCCAAGGCAACCCTTGCCGGTTTGCCTGACCTTAGAGGGCC  
 AGAAGGTGGATCCAGCGCTACGTTCTGCAGGCTTCAGACCCTGCTGTCAGTCAAGCCTGGATAAAGCAA  
 GTGGCCAGATCCTGGAAAGCCAGCGTGACTTTCTCAACGCATTACAGTCAACCCATTGAATACCAGAGAC  
 GTGAGAGCCAGACCAATAGCCTGGGGCAGCAGGAGGGCCTTGGGTAGGGAGCCCTGGGAGAATGCGGCC  
 TGGAGACCTGGCCAGGCCAGCATGCACACACCATCAATGGCTCTCCTTCCCTGCTACTTCTGCC  
 AGAGGGGAGGTGTCAGAGTGTGTTGCCCTGGATACACAGGCTCTCAGTGATACCCCCAGACTCCTC  
 ATGACTCTCCAGCCCTCCCACTGTGAACACTCCTCCTGTGAGGCCAGGCTCGCCAAGCTGGATGAAGA  
 TGAGCT**GTAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001166413

**Insert Size:** 1830 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\\_001166413.1](#), [NP\\_001159885.1](#)

**RefSeq Size:** 2199 bp

**RefSeq ORF:** 1830 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 (2) differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.