

Product datasheet for **MC225208**

Arfgef3 (NM_001033258) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arfgef3 (NM_001033258) Mouse Untagged Clone
Tag: Tag Free
Symbol: Arfgef3
Synonyms: 9630004D11; B930094H20Rik; BIG3; D10Bwg1379e; mKIAA1244
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225208 representing NM_001033258
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAAGAGATCCTGAGGAAGCTGCAGAGAGATGCGTCCGGGAGCAAATACAAAGCCATCAAAGAGAGCT
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GCTGGAAGAGTTTGTCAAAGGCCCTCTCCGGGAGAAGAGAAGACAGTCCAAGTACCAGACACCAAGCTG
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 AGAGCTGCTGAGGCAGGAGAAGAGACCTCGGTACGGCTCCACAGGAAGTCCCTTACTGTCTCTGTACGG
 GATGCAGAAGCGCAGATCCAGGCGTGGACCAACATGGTGTAACTGTTCTCAATCAGATTAGATCCTTC
 CAGACCAGACCTTCACTGCTCTCCAGCCAGCTGTGTTCCCATGCATCAGCCAGCTGACCTGTACGTGAC
 TGACATCCGAGTCCGTCAAGCTGTGAGGGAATGGCTGGGAAGAGTGGCCGCTGTCTATGACATCATCACT
 TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033258
- Insert Size:** 6513 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_001033258.4](#), [NP_001028430.1](#)
- RefSeq Size:** 8216 bp
- RefSeq ORF:** 6513 bp
- Locus ID:** 215821

UniProt ID: [Q3UGY8](#)

Cytogenetics: 10 7.79 cM

Gene Summary: Participates in the regulation of systemic glucose homeostasis, where it negatively regulates insulin granule biogenesis in pancreatic islet beta cells (PubMed:24711543). Also regulates glucagon granule production in pancreatic alpha cells (PubMed:25737957). Inhibits nuclear translocation of the transcriptional coregulator PHB2 and may enhance estrogen receptor alpha (ESR1) transcriptional activity in breast cancer cells (By similarity).[UniProtKB/Swiss-Prot Function]