

Product datasheet for **MG204889**

D10Ertd610e (BC054833) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D10Ertd610e (BC054833) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	D10Ertd610e
Synonyms:	2410008H17Rik; D10Ertd610e; GEFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204889 representing BC054833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGTATGTGGTGTACTGCCAGAATAAACCCAAGTCAGAGCATGTGCTGTGAGAGTTGGGGACAGCTACT
 TTGAGGAGCTGAGGCAGCAGCTGGGACACCGACTGCAGCTCAATGACCTCCTATTAAACCAAGTGCAGCG
 AATCATGAAATACCAGTTGCTGCTGAAGGATTTCTAAAGTATTACAGAAGAGCTGGGAAGGATACTGAA
 GAGCTGGAGCAAGCTGTGGAGGTCATGTGTTTCGTACCTAAGCGATGCAATGATATGATGTCCCTGGGGA
 GACTTCGGGGATTGAGGGAAACTGACTGCTCAGGGGAAGCTCTGGGCCAGGACACATTCTTGTTTAC
 AGAGCCTGAAGCTGGGGGTCTGCTTTCTCCCGGGTTCGGGAGAGGCGTGTCTTCTGTTGAGCAAATC
 ATCATCTTCAGTGAGGCCCTGGGAGGAGGAGGCCGAGGTGGCGCGCAGCCTGGCTACGTGTACAAGAACA
 GCATCAAGGTGAGCTGCCTAGGGCTGGAGGGGAATCTCCAAGGCAACCCTTGCCGGTTTGCGCTGACCTC
 TAGAGGGCCAGAAGGTGGGATCCAGCGCTACGTTCTGCAGGCTTCAGACCCTGCTGTGAGTCAAGCCTGG
 ATAAAGCAAGTGGCCAGATCCTGGAAAGCCAGCGTGACTTTCTCAACGGTGAAGCTCCCATCCTCTCCC
 TTCAGAGGCTCCCAAAGCTATCTGACCTCCTGAACCCCTCCCGAGCCACGAGTCTCAACCCCTTGCTT
 CTTTGAGCCTAACTTCTCTCATCCTACACCCACCCGAAACCCCTCAAAGTTCCAAGCACCTTACATTGG
 CCAAATGAGGAAGAAGGTGAGGCAGGGAAGTGATCGGTCTCTTCTGTAATACATCTCTGTTCTTCCCT
 TGGCCCGACATTACAGTACCCATTGAATACCAGAGACGTGAGAGCCAGACCAATAGCCTGGGGCGACCA
 GGAGGGCCTTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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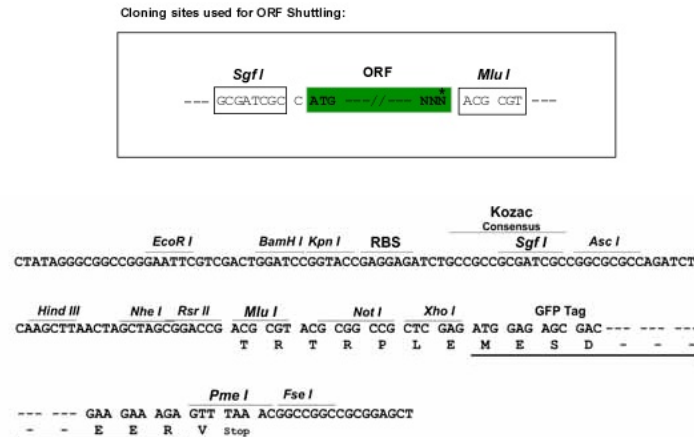
Protein Sequence: >MG204889 representing BC054833
 Red=Cloning site Green=Tags(s)

MYVVCQNKPKSEHVLSEFGDSYFEELRQQLGHRQLNDLLIKPVQRIMKYQLLLKDFLKYRRAGKDTE
 ELEQAVEVMCFVPKRCNDMMSLGRLRGFEGKLT AQGKLLGQDTFLVTEPEAGLLSSRGRRERVLFEQI
 IIFSEALGGGGRGAQPGYVYKNSIKVSCLGLEGNLQGNPCRFALTSRGPEGGIQRYVLQASDPAVSQAW
 IKQVAQILESQRDFLNGEAPILSLQRLPKLSDLLNPFPSHAVSNPCFFEPNFSYTHPKPSKVPSTLHW
 PNEEEGEAGKVI GLFCNTSLFLPLAQHYSHPLNTRDVRARPIAWGDQEGLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC054833

ORF Size: 993 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC054833](#), [AAH54833](#)

RefSeq Size: 1732 bp

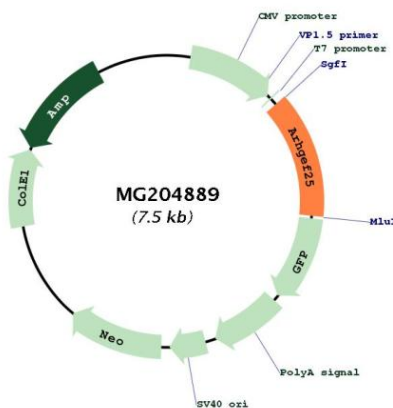
RefSeq ORF: 995 bp

Locus ID: 52666

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]

Product images:



Circular map for MG204889