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Product datasheet for MR204889

D10Ertd610e (BC054833) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D10Ertd610e (BC054833) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D10Ertd610e
Synonyms:	2410008H17Rik; D10Ertd610e; GEFT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204889 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTATGTGGTGTACTGCCAGAATAAACCCAAGTCAGAGCATGTGCTGTCAGAGTTTGGGGACAGCTACT TTGAGGAGCTGAGGCAGCAGCTGGGACACCGACTGCAGCTCAATGACCTCCTCATTAAACCAGTGCAGCG AATCATGAAATACCAGTTGCTGCTGAAGGATTTTCTAAAGTATTACAGAAGAGCTGGGAAGGATACTGAA GAGCTGGAGCAAGCTGTGGAGGTCATGTGTTTCGTACCTAAGCGATGCAATGATATGATGTCCCTGGGGA GACTTCGGGGATTTGAGGGAAAACTGACTGCTCAGGGGAAGCTCTTGGGCCAGGACACATTCTTGGTTAC AGAGCCTGAAGCTGGGGGTCTGCTTTCTTCCCGGGGTCGGGAGAGGCGTGTCTTCCTGTTCGAGCAAATC ATCATCTTCAGTGAGGCCCTGGGAGGAGGAGGCCGAGGTGGCGCGCAGCCTGGCTACGTGTACAAGAACA GCATCAAGGTGAGCTGCCTAGGGCTGGAGGGGAATCTCCAAGGCAACCCTTGCCGGTTTGCGCTGACCTC TAGAGGGCCAGAAGGTGGGATCCAGCGCTACGTTCTGCAGGCTTCAGACCCTGCTGTCAGTCAAGCCTGG ATAAAGCAAGTGGCCCAGATCCTGGAAAGCCAGCGTGACTTTCTCAACGGTGAAGCTCCCATCCTCTCCC TTCAGAGGCTCCCAAAGCTATCTGACCTCCTGAACCCCTTCCCCAGCCACGCAGTCTCCAACCCTTGCTT CTTTGAGCCTAACTTCTCTCCATCCTACACCCACCCGAAACCCTCTAAAGTTCCAAGCACCTTACATTGG CCAAATGAGGAAGAAGGTGAGGCAGGGAAAGTGATCGGTCTCTTCTGTAATACATCTCTGTTCCTTCCCT TGGCCCAGCATTACAGTCACCCATTGAATACCAGAGACGTGAGAGCCAGACCAATAGCCTGGGGCGACCA GGAGGGCCTTGGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

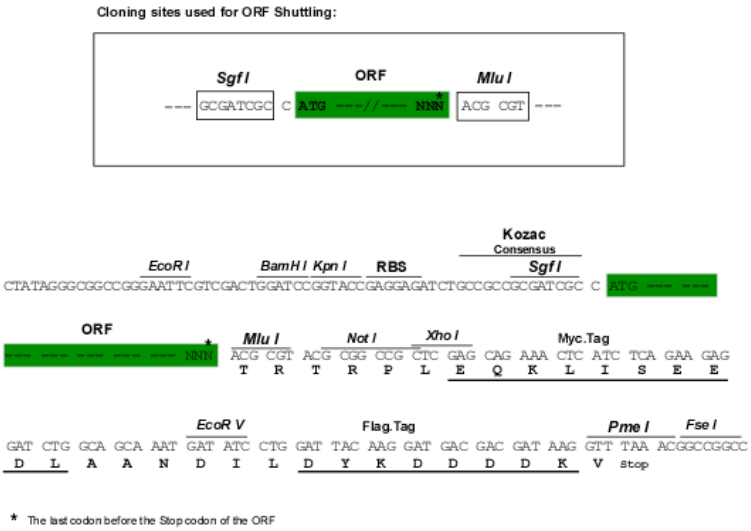
>MR204889 protein sequence
Red=Cloning site Green=Tags(s)

MYVVYCQNKPKSEHVLSEFGDSYFEELRQQLGHRLQLNDLLIKPVQRIMKYQLLLKDFLKYYRRAGKDTE
ELEQAVEVMCFVPKRCNDMMSLGRLRGFEGKLTAQGKLLGQDTFLVTEPEAGGLLSSRGRERRVFLFEQI
IIFSEALGGGGRGGAQPGYVYKNSIKVSCLGLEGNLQGNPCRFALTSRGPEGGIQRYVLQASDPAVSQAW
IKQVAQILESQRDFLNGEAPILSLQRLPKLSDLLNPFPSHAVSNPCFFEPNFSPSYTHPKPSKVPSTLHW
PNEEEGEAGKVIGLFCNTSLFLPLAQHYSHPLNTRDVRARPIAWGDQEGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

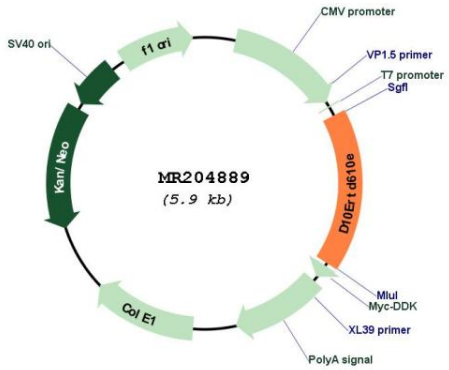
Locus ID: 52666

Cytogenetics: 10 74.5 cM

MW: 37.1 kDa

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 MR204889