

Product datasheet for MC225460

Trio (NM_001081302) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Trio (NM_001081302) Mouse Untagged Clone
Tag: Tag Free
Symbol: Trio
Synonyms: 6720464I07Rik; AA408740; Solo
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225460 representing NM_001081302
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGCAGCAGCGGGTGCCACCGCCCGCGCGTCTCCGGCCCGCGGCAGCGCCAGCGCGG
 CGGGCTCCGGCTCGGGGGCGCGCCGGCGAGGGCGCCGAGGAGCCCAAGGACCTAGCCGACATCGC
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GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001081302
Insert Size:	9312 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:	<ol style="list-style-type: none">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:	<u>NM_001081302.1, NP_001074771.1</u>
RefSeq Size:	11521 bp
RefSeq ORF:	9312 bp
Locus ID:	223435
UniProt ID:	<u>Q0KL02</u>
Cytogenetics:	15 B1
Gene Summary:	Guanine nucleotide exchange factor (GEF) for RHOA and RAC1 GTPases. Involved in coordinating actin remodeling, which is necessary for cell migration and growth (By similarity). In developing hippocampal neurons, limits dendrite formation, without affecting the establishment of axon polarity. Once dendrites are formed, involved in the control of synaptic function by regulating the endocytosis of AMPA-selective glutamate receptors (AMPA-selective glutamate receptors) at CA1 excitatory synapses (By similarity). May act as a regulator of adipogenesis (PubMed:22666460).[UniProtKB/Swiss-Prot Function]