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Product datasheet for MC223495

Tshz3 (NM_172298) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tshz3 (NM_172298) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tshz3
Synonyms:	A630038G13Rik; mKIAA1474; teashirt3; Tsh3; Zfp537
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223495 representing NM_172298 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCGAGGAGGAAGCAGCAGGCGCCCCGGCGCGCAGCAGCCTATGTTTCCGATGAGTTAAAGGCAGCTG CCTTGGTAGAAGATGACGTAGAGCCGGAGGAACAAGCGGCAGATGGAGAGCCCTCAGCCAAGTACATGTG TCCAGAGAAGGAACTCAGCAAGGCCTGCCCTAGCTACCAGAACTCACCGGCCGCTGAGTTCTCCAGCCAT GAAATGGACAGCGAGTCTCACATCAGTGAGACGAGTGACCGGATGGCTGACTTTGAAAGCAGTTCCATCA AGAATGAGGAGGAGACCAAGGAGGTCCAGGTGCCCCTGGAGGACACCATCGTGTCTGATAGCCTGGAGCA GATGAAGGCCGTGTACAACAACTTCCTGTCCAATTCCTATTGGTCCAACCTCAACCTGAACCTGCACCAG CCCTCCTCCGAGAACAATGGTGGCAGCAGTAGCAGCAGCAGCAGTAGCAGCAGCAGCTGTGGCAGCGGGA GCTTTGACTGGCACCAGAGTGCCATGGCGAAGACCCTGCAGCAGGTGTCCCAGAACCGAATGCTGCCGGA GCCCAGCCTGTTCAGCACCGTGCAGCTGTACCGCCAGAGCAGCAAGCTGTACGGCTCCATTTTCACCGGG GCCAGCAAGTTCCGTTGCAAAGACTGTAGCGCCGCCTACGACACCCTGGTAGAGCTGACCGTGCACATGA ATGAGACAGGTCACTATCGCGATGACAACCACGAGACCGACAACAACAACCCCAAGCGCTGGTCCAAGCC TCGCAAACGGTCTTTGTTGGAGATGGAGGGGAAGGAGGATGCTCAGAAGGTGCTCAAGTGTATGTACTGT GGCCACTCCTTTGAGTCCCTCCAAGACCTGAGCGTCCATATGATCAAAACTAAACACTACCAAAAAGTGC CTCTCAAGGAACCTGTCACACCCGTTGCAGCCAAAATCATCCCTGCTGCTCGGAAGAAACCTTCTCTGGA GCTGGAGCTGCCTAGCTCCCCTGATTCCACAGGTGGAACCCCCAAAGCCACCCTGTCTGATGCCAGCGAC GCCCTGCAGAAGAACTCCAACCCTTACATCACGCCAAATAATCGGTACGGCCACCAGAACGGGGCCAGCT ATGCATGGCACTTCGAGGCCCGAAAGTCTCAGATCCTCAAATGCATGGAGTGTGGAAGCTCCCATGACAC GCTCCAGGAGCTCACAGCTCACATGATGGTCACTGGCCACTTTATCAAGGTCACAAACTCGGCCATGAAG AAGGGGAAGCCCATCATGGAGACACCGGTCACGCCCACCATCACCACCTTGCTGGACGAGAAGGTGCAGT CTGTGCCACTGGCAGCCACCACATTCACGTCTCCCTCCAATACGCCCGCGAGTGTCTCCCCGAAGCTGGC GGTGGAGATCAAAAAGGAAGTGGACAAGGAGAAAGCAGTCCCGGATGAGAAACCCAAGGAGAGAGAGAAG CCCAGTGAAGAGGAGGAGAAGTATGATATTTCTTCCAAGTACCACTATTTGACTGAAAACGACCTAGAAG

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AGAGCCCTAAAGGTGGACTAGATATCCTCAAATCCCTTGAGAACACAGTAACGTCTGCCATCAACAAGGC
TCAGAATGGCACTCCCAGCTGGGGCGGCTATCCCAGCATCCACGCTGCCTACCAGCTCCCCAACATGATG
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TGTGCGTCACAAATCAGGACTCCTTCCACGTACATCAGCCACCTAGAGTCACATCTGGGCTTCCGGCTAC
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ACTGGTGACATCCTCCCCGGAGGAGGATCTGGGGACCACCTACCAGTGCAAACTTTGTAATCGGACCTTT
GCGAGCAAGCATGCTGTTAAACTTCACCTTAGCAAAACCCACGGGAAATCACCGGAAGACCACCTCCTGT
TCGTTTCTGAATTGGAGAAGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172298

Insert Size: 3246 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_172298.2, NP_758502.1

RefSeq Size:	5002 bp
RefSeq ORF:	3246 bp
Locus ID:	243931
UniProt ID:	Q8CGV9
Cytogenetics:	7 B2
Gene Summary:	Transcriptional regulator involved in developmental processes. Function in association with APBB1, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. TSHZ3-mediated transcription repression involves the recruitment of histone deacetylases HDAC1 and HDAC2. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s). Regulates the development of neurons involved in both respiratory rhythm and airflow control. Promotes maintenance of nucleus ambiguus (nA) motoneurons, which govern upper airway function, and establishes a respiratory rhythm generator (RRG) activity compatible with survival at birth. Involved in the differentiation of the proximal uretic smooth muscle cells during developmental processes. Involved in the up-regulation of myocardin, that directs the expression of smooth muscle cells in the proximal ureter. Involved in the modulation of glutamatergic synaptic transmission and long-term synaptic potentiation (PubMed:27668656).[UniProtKB/Swiss-Prot Function]