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Product datasheet for MC224729

Thoc2 (NM_001033422) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thoc2 (NM_001033422) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Thoc2
Synonyms:	6330441O12Rik; D130005M13Rik; Gm1139; Gm1793; Tho2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224729 representing NM_001033422
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCGCGGCTGTGGTGGTTCCCGCAGAGTGGATAAAGAACTGGGAGAAATCAGGGAGAGGCGAAT
TTTTACATTTATGCCGGATTCTCAGTGAAAATAAAAGCCATGACAGTTCGACCTACAGAGATTTTCAACA
AGCTCTGTATGAGTTGTCATACCATGTCATTAAAGGGAATTTAAAGCACGAACAGGCATCTAGTGTTCTT
AATGACATTAGCGAATTCCGTGAGGATATGCCTTCTATCCTTGCTGACGTGTTCTGCATATTAGATATTG
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AGTTTCAGACACAGTTTTGAAGGAACGATTGGATCCAGAAACTTTGGAATCATTAGGGCTTATCAAACAG
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TTGGATGTCATTTTAGAAGTGTTTGAATGCAGGCCAGAACATGATGACTTCTTTATATCTTTATTAGAAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001033422
Insert Size:	4785 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_001033422.1, NP_001028594.1
RefSeq Size:	7631 bp
RefSeq ORF:	4785 bp
Locus ID:	331401
UniProt ID:	B1AZI6
Cytogenetics:	X A4
Gene Summary:	Required for efficient export of polyadenylated RNA and spliced mRNA. Acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. Plays a role for proper neuronal development.[UniProtKB/Swiss-Prot Function]

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