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Product datasheet for MC224109

Xntrpc (NM_011644) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xntrpc (NM_011644) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xntrpc
Synonyms:	Xndr-trpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224109 representing NM_011644
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCTGTGAAGATCAGCCATGTGGTGTCATTTTCCTCTCAGGATCCCAAATATCCTGTGGAGAACT
TGCTGAACCCAGACAGTCACAGGGGACCCTGGCTCAGCTGCCCTCAGGACAAGACTGGACAACTGAAAGT
GGAGTTTCAGCTGGAGAGGGCAGTGCCCATAAGCTATATTGATGTTGGAAACTGTGGCTGTGCTTTCCTA
CAGATTGATGTGGGTCGTTCTTCCTGGCCCCTGGACAGACCTTTCGTCACCCTGCTCCCTGCCACCATGC
TAATGTCCCGCACTGACTCCAAGTCGGGGAAGAACCGCTCAGGGGTCCGGATGTTTAAAGATGGTGATTT
CCTGACTCCAGCCTCAGGAGAGTCCTGGGATCGACTTCGATTGACCTGCTCCCAACCTTTCACACGTCAT
CAGTCCTTTGGCCTGGCCTTCCTACGAGTGCGTTCCTCTCTGGGCTCTCTGGCTGACCCTGTAGTAGATC
CCTCAGCCCCTGGGAGCTCTGGGCTTAACCAGAACTCTACAGATGTGCTGGAGTCTGATCCTAGGCCCTG
GCTGACTAATCCTTCTATCCGGAGGACATTCTTCCCCGATCCCCAGACGAGCACCAAGGAAATTTCAGAG
CTCAAGGGTATGTTGAAGCAGTTGCAGCCAGGGCCTCTGGGGCGGGCAGCCCGCATGGTGCTTTCTGCTG
CCCGTAAGGCCCCTCCAGCCAGTGTGGTAAGCCCAAACAACAGCCACGGAGAACCAGGTCCCAGCCGTGC
AGAGAGTGCAGAGCCCAGAGCAGAAGAACCAAACAGGAAGACGGCTGTGGGCAGAAGGAAGAGGAGGAAA
GTGCAGGAGCCAAGGAGATCGTTGTCCAACTCGAGTTCTCAGCCAAATAGGAGGACAGGAAGGACAAGAC
AAAGACAGCACCGACCTCAGACCAAAAGTGATGACGGTGGTGTGCAGGCTGCTGGACAGTGTCCTATTTG
TGCAGGTTTCTTCAGTATTGAGACTCTTCCCCAGCATGCTGCAACTTGTGGAGAGAGCCCCCCACCCCAG
CCAGCTTCTCCTGCCTCCTTGTCTTCCTCGGAGTCCGTGCTGAGACGTCATCATGTGGCACTAACACCCG
TTCCCCTTGTCCCCAAGCCACAGCCCAACTGGACTGAGATTGTGAACAAAAAGCTCAAATTCCCCCCCAC
ACTCCTGCGTGCCATCCAGGAGGGCCAGCTGGGTCTTGTGCAGCAGCTGCTGGAATCCAGTTCCGATGCC
TCGGGTGCTGGGCCAGGTGGTCCTCTGCGGAATGTGGAAGAGTCTGAGGACCGCTCCTGGAGGGAAGCCC
TCAACCTGGCCATCCGCCTGGGCCACGAGGTCATCACTGATGTTCTGCTGGCCAATGTCAAATTCGACTT
TCGGCAGATCCACGAAGCCCTGCTAGTGGCTGTGGACACAAACCAGCCAGCAGTGGTGCGTCGCCTGCTA

GCGCGGCTGGAGCGGGAGAAAGGTCGAAAAGTAGACACCAAGTCTTTCTCTCTAGCCTTCTTTGACTCAT
CGATTGATGGCTCCCGCTTTGCCCCTGGTGTCACTCCACTCACACTGGCCTGCCAGAAGGACCTGTATGA
GATTGCCCAGCTGCTTATGGACCAGGGCCATACCATTGCTCGGCCCCACCCAGTTTCCTGTGCCTGCCTC
GAGTGCAGCAATGCCCGCCGATACGACCTGCTGAAGTTCTCACTATCCCGAATCAACACCTACCGAGGCA
TTGCAAGCCGGGCTCACCTCTCGCTGGCCAGTGAGGATGCCATGCTGGCCGCTTTTCAGCTCAGCCGGGA
GCTCAGGCGCCTTGCACGAAAGGAGCCTGAGTTTAAGCCTCAGTACATTGCCCTGGAGTCTCTCTGCCAG
GACTATGGCTTCGAGTTGCTGGGCATGTGCCGAAATCAGAGTGAGGTCACCGCAGTGCTCAATGACCTGG
GTGAGGATAGTGAGACTGAGCCTGAGGCTGAGGGCCTGGGTCAGGCCTTTGAGGAGGGCATCCCCAACCT
GGCAAGACTGCGGTTGGCTGTCAACTACAACCAGAAACAGTTTGTAGCACATCCCATCTGCCAGCAAGTT
CTGTCTTCCATCTGGTGTGGGAACCTGGCTGGCTGGCGTGGAAGCACCACCATCTGGAAGCTCTTTGTTG
CCTTCCTCATCTTCCTCACCATGCCCTTCCTCTGCATTGGCTACTGGCTGGCGCCCAAGTCCCAGCTGGG
CCGCCTGCTGAAGATCCCGGTGCTGAAGTTCCTGCTGCATTCTGCCTCCTACCTGTGGTTCCTTATCTTC
TTGCTGGGAGAGTCTCTGGTCATGGAGACCCAGCTGAGCACCTTCAAAGGCCGCAGCCAGAGTGTCTGGG
AGACTTCACTACATATGATCTGGGTCACAGGCTTCCTATGGTTTGAATGCAAGGAGGTGTGGATCGAGGG
CTTGCGGAGCTACCTCCTGGACTGGTGGAACTTCCTGGACGTGGTCATCCTGTCCCTGTACTTGGCATCC
TTTGCACTGCGCCTCCTCCTGGCTGGGCTTGCCTACATGCACTGCCGTGATGCCTCAGACAGCACCACCT
GCCGCTATTTCACCACAGCTGAGAGAAGTGAGTGGCGTACAGAGGACCCCCAGTTTCTGGCTGAGGTGCT
CTTTGCTGTCACCAGCATGCTCAGCTTCACCCGACTGGCATATATTCTGCCAGCTCACGAATCGCTGGGC
ACACTGCAGATCTCCATCGGCAAGATGATTGACGACATGATCCGGTTCATGTTCATCCTCATGATCATCC
TGACTGCCTTCCTCTGTGGCCTCAACAACATCTATGTGCCCTACCAGGAATCCGAGAAGCTAGGCAATTT
CAACGAAACGTTCCAGTTTCTCTTTTGGACCATGTTCGGCATGGAAGAGCACACAGTGGTGGACATGCCT
CAGTTCCTGGTGCCTGAGTTCGTGGGCAGGGCCATGTACGGCATCTTTACCATCGTCATGGTCATTGTGC
TACTTAACATGCTTATTGCCATGATCACCAACTCCTTCCAGAAGATCGAGGATGATGCTGATGTGGAGTG
GAAGTTTGCTCGCTCCAAGCTCTACCTGTCCTACTTCCGAGAGGGTCTGACGCTGCCTGTGCCCTTTAAC
ATCCTGCCATCCCCAAAGGCCGCCTTCTACCTCGTCAGGAGAATTTTCCGGTTCCTTTGCTGTGGCTCCT
CCTGCTGCAAAGCCAAGAAGTCGGACTACCCGCCCATCGGGACCTTTACCAACCCCGGGGCAAGGGCGGG
CTCCGCCGGGGAAGGAGAACGCGTGTCCTACCGCCTTCGAGTCATCAAGGCTCTGGTGCAGCGCTACATA
GAGACTGCCCGGCGCGAGTTCGAGGAGACCCGTCGGAAAGACCTGGGCAACAGACTGACAGAGCTGACCA
AGACTGTGTCTCGACTGCAAAGCGAGGTGGCCAGTGTGCAGAAGAACCTGGCGGCGGGAGGGGCACCACG
GCCTCCGGATGGTGCCAGCATCCTCAGTAGATACATCACCCGAGTGCGCAACAGCTTCCAGAACCTGGGC
CCCCCTACCTCTGACACCCCAGCAGAGCTGACTATGCCTGGGATTGTGGAGACCGAAGTCTCTTTAGGAG
ATGGCCTTGATGGCACAGGTGAAGCTGGAGCTCCCGCTCCTGGAGAGCCCGGCTCTTCCTCCTCTGCCCA
TGTGCTGGTTCACAGGGAGCAAGAAGCAGAGGGGTCAGGGGACTTGCTCCTGGAAGGAGATCTGGAGACC
AAGGGCGAGTCCTAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_011644

Insert Size: 3795 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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: NM_011644.3, NP_035774.2

RefSeq Size: 4506 bp

RefSeq ORF: 3795 bp

Locus ID: 102443351

Cytogenetics: 7

Gene Summary: This locus represents naturally occurring readthrough transcription between the neighboring Xndr (XRCC1 N-terminal domain-related) and Trpc2 (transient receptor potential cation channel, subfamily C, member 2) genes on chromosome 7. Readthrough transcripts include one that encodes a fusion protein that shares sequence identity with each individual gene product and one that is a candidate for nonsense-mediated mRNA decay (NMD), and thus is unlikely to produce a protein product. [provided by RefSeq, Nov 2013]
Transcript Variant: This variant (1) represents the longer transcript and encodes an Xndr-Trpc2 protein.