

Product datasheet for **SC108541**

TNPO3 (NM_012470) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TNPO3
Synonyms:	IPO12; LGMD1F; LGMD22; MTR10A; TRN-SR; TRN-SR2; TRNSR
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

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>OriGene sequence for NM_012470 edited
CAAAGAGGAGGAGATGGCGCCAGTCAGGGAGCGGCCGTGGCCAGACAGTGAGGAAGCGC
GAAGGCGGAGCAACCGAGGAATCCTCCGGAGAAGAATCAGAGCCGTCGCTACCGCCACTA
CCGCCACCATGGAAGGAGCAAAAGCCGACATTGCAGCTCGTGTACCAAGGCAGTGCAAG
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TACAGATGCCTTCTGGAAGGGATGTGTGCAAAACACTGGTGAAAAAATACAGCAATGATG
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CCTCGTCTAACCTACATGAAGCTGCTTCGGACTGTGTATGCTCAGCTCTGTATGCCATTG
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CAGAAGCGGTTCTCTTATCATGGCTGCTATAGCAAAGAGTGTTGATCCGGAACAAATC
CAACTTGTGGAAGTCTAGAAAGGAGTTGTCCGCTCCCGAGACCGTACATACGGCTG
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TCCAGCCTTCTGAGGCCATCCTGAGGAGTTCCTGTTTGGGGGTGTAGGGAAAAATCAGCG
CGGATTTTAAAAAGATGGCTGTGGCTGCCCGCGTGGTGGGAGGGAGCTGTTTCTCTG
GTGAACCTTTCTAAAAGGAAAAATAATTTTAAGTAAAGAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_012470 unedited
TACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCAAAGAGGAGATGGCGCC
AGTCAGGGAGCGGCCGTGGCCATACAGTGAGGAAGCGCGAAGCGGAGCAACCGAGGAA
TCCTCCGGAGAAGAATCAGAGCCGTGCTACCGCCACTACCGCCACCACCATGGAAGGAG
CAAAGCCGACATTGCAGCTCGTGTACCAGGCAGTGACGGCGCTTTACCACGACCCAGATC
CCAGCGGAAAGGAGCGCGCCTCTTTTGGCTTGGGGAGCTGCAGCGTTTCGGTTCATGCAT
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CACAGACCATGAAAATGAAGATTCAGACCTCATTTTATGAGCTCCCCACAGACTCTCATG
CCTCTTTACGGGACTCATTGCTAACCCATATCCAGAACTTGAAAGACTTGTCACCTGTTA
TTGTAACGCAGCTGGCTTTAGCAATAGCAGATCTTGCCTACAGATGCCTTCTGGAAGG
GATGTGTGCAAACTGGTGGAAAAATACAGCAATGATGTGACTTCTTTGCCTTTTTTGC
TGGAGATCCTTACAGTGTTACCTGAAGAAGACATAGTCGTTCTTACGAATTGGAGCTAA
TCGGCGCACAGAAATTATAGAAGTTTGGCCTTCTACTCTAGTACAGTAGTATCTCTATT
GATGACCTGTGTAGAAAAAGCAGGAACAGATGAGAAAATGCTTATGAAGTTTTTTCGCT
GTTTGGGAAAGTGGTTTACCTTGGGAGTTTGGACAGTACTTCATGGCTAACANNTAAT
ACTAGCACTCCTTNNNTGAGTTTTGCACAGGATAAGAACTCGTCTACCTACATGAGCTGC
CTCGGACTGTGATGCTCANCTCTGATGCATTGAGATGTGGAGACTACTGNCATAGCATGC
ACTTTNTCAGGATGCGACTTG

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_012470 unedited
ACCGCGGGCCGCATATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTTTACTTAAATTA
TTTTCTTTTTTAAAGTTTACCAGGAAAACAGCTCCCTCCCACCACGCCGGCAGGC
CACAGCCATCTTTTTAAATCCGCGCTGATTTTCCCTCACACCCCAACAGGAATCCT
CAGGATGGCCTCAGAAGGCTGGAGTCTCTCCCTGTCTGGCGGGACCCCTGGTGGCGGTG
AAGGCCCTCTGCCACAACGGAGTTTCTGATTGTGGGACACAGTCTGGTTTTTGTTC
TTCCTGTCTTCTAATTAAGAACATTCCTGGGTGACAGGCACAGTGCAGGAGTGTGAG
CTATCGAAACAACCTGGTGAAGTCTCGAAGGCCAGCAAACTTGTTCATTCTCAGC
ACTAGTGACTTGCTTGTGGAAGTCTGTAAGTTGTTTGTGTGCTGACGTGACAGCTCCAC
GGTTGTTTCTTTGGCAACCTTTTAAGGAATTTCTAACCATCGAAAAAGTCGGTCT
GTCAACCTGCATGATCTCCAGAGCACTTCAGCCACATCTGGTAGGGTATAGGGGGGGAG
GCAAAAGCACCAGGTGTGACCANCTGGCTGACAAGCTGCTGTCCAAGCTGGGTATCAC
CTGTCCAACAATTTCTTTTCGGAATTCAAATCTTCTCATGAACATTGGCTACCCCTGTAT
GAAAGAGGCCTCGGTAAAAACCCATGAACCTACAATTGGATTCCCGGGGGGCCAGGGTT
ATAAAGGCCATGGCCCACTTGAAAAAGGAATAACCTTGGGTCCCGAGAAAGGGACAG
GGCTTCCCTAAAAACCTTGGCCACCCGACAAGTATTTCAAGTGGCGGGGATCTGGA
ACCACTCCTCTGTCTCTGGCCACAGGCGGGTCCCCCCCCCTCCCTTTCTAA

Restriction Sites:

NotI-NotI

ACCN:

NM_012470

Insert Size:

3630 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).

OTI Annotation:

This clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (<http://www.epibio.com/item.asp?ID=435>) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.

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_012470.2 , NP_036602.1
RefSeq Size:	3669 bp
RefSeq ORF:	2772 bp
Locus ID:	23534
UniProt ID:	Q9Y5L0
Cytogenetics:	7q32.1
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a nuclear import receptor for serine/arginine-rich (SR) proteins such as the splicing factors SFRS1 and SFRS2. The encoded protein has also been shown to be involved in HIV-1 infection, apparently through interaction with the HIV-1 capsid protein. Several protein-coding and non-coding transcript variants have been found for this gene. [provided by RefSeq, Apr 2020] Transcript Variant: This variant (1) encodes the longer isoform (1).