

Product datasheet for **SC100218**

Myotrophin (MTPN) (NM_145808) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myotrophin (MTPN) (NM_145808) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myotrophin
Synonyms:	GCDP; V-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100218 sequence for NM_145808 edited (data generated by NextGen Sequencing) ATGTGCGACAAGGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGAC TATGTGGCCAAGGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCAT TATGCAGCAGATTGTGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGAT ATTAATGCTCCAGATAAACATCATATTACTCCTCTTCTGTCTGCTGTCTATGAGGGTCAT GTTTCCTGTGTGAAATTGCTTCTGTCAAAGGGTGCTGATAAGACTGTGAAAGGCCCAGAT GGACTGACCGCCTTTGAAGCCACTGACAACCGCAATCAAAGCTCTTCTCCAGTGA Clone variation with respect to NM_145808.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145808 unedited TCAAAATTTGTAATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGCCTCGGCC AGGCGGAACCTCTCTGCTGGGCCCGGTGGCCGCAAAAGAACTTTCTTCTCCCGCCGAA CGGTGCGCGCGGCCAACTGCCTCGCCCGCTGGCAGCCTAACCTCCTTCTCTTCTC CTCTCCGGCTTCGCGCGGCCCTGCCTCCCTCTCGCCCGCGGCATCCGCTTGCTGCTGCC ACCGCTCCTCATCTTCTGCCCCGCCAACCGGCCTGCCCGCTGCAGTGATGTGCGACAA GGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGACTATGTGGCCAA GGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCATTATGCAGCAGA TTGTGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGATATTAATGCTCC AGATAACATCATATTACTCCTCTTCTGCTGCTGCTATGAGGGTCATGTTTCTGTGT GAAATTGCTTCTGTCAAAGGGTGTGATAAGACTGTGAAAGGCCAGATGGACTGACCGC CTTTGAAGCCACTGACAACAGGCAATCAAAGCTTCTCCAGTGATGGATGGATGGACT GATAACTCCGGAAGAATGACTCTNCTGTGGCCTCACACTGCTGCCTGTCTGTCTGCTACT CTCTATCTGCCAGCTTCTTCAGCTAAATACTTTAAGAGGGGTGANNGGGGAGAGAGAAAT TCATAACAAATCCGACTACCAGAAAAAAATTTGTTTTTGGAGGAGGGCANAAGAACCAT GATCAGGGCTTTACTGGGATTCTGATCAGTAAGCCTCTCCCTTTCTAATNAATATACAC TTATACCCAGGGAGAGCAAGACAAATACACAGTACATTGACCCTTTCCTCTACTAATT ATAAATGGGGTGAAGCCTGA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_145808 unedited NNGGGTATAGCTATGNACGCGGCCGCACTTCTNANATCGAGTTTTTTTTTTTTTTTTTGT AGCACAATTCAAGTTTATTCCATTTGTTCTTGCAACACAAAACCTAAAACACAGTATTAT TTAGCATTCGGATGTACATGAAGTAGGATACTTATGAGAAACCCAACTGCGTCAAAAGTA TGACATTTGTGAAAAAATGAACTCAAATATATCAAATGCACAAAGCACTAGTCTTCCTC CATTACCGCTTAGAAAGATATGATTGTTTCTCCATTTACAAAATAGAATCAGGACAATTT AAATTTTTTATATTTGCATGCAAAACACTGCAATTGCTTATTTATGTAGGAGGGCACTC TCACCAGCTTCTTCTATACACAATTGAGTATACAATATTGCATGGAAGAAAAACAGCAGCT CAACTGAAATATTAGAAAAAAAATCAAACAGATACATACAGATTTAAAAATCCAGTACTT GGGAAAAGATATCAATGAATAAAAGGCCTACTTGTGTCAGCTTCCACACACTGCACCTA CCTACTACCTCTCTTCCATGCTTAAGTGGGTTTAGAAAGGTGAGCTATGCGTAGAAGAAC TACTTGGGATATTCAAGTGTGTATTTGAACGATAAGCCTATAGATAACAGTCTGAAGCT GCCAGGGAGACTTTGTTAGTACACTACTATAAACAGGTAACCTACCCTGTTTGGACTTGA AATAGTGCATATGGAATGACTGATTTAATACAAAACCTCCGAACATGCCAAATTTTTCT GAGATGGTAAGTATTAATCTCCGTGGGAGACAAAACTTACTCAAACCTTCGGCTAATGC CTGTGGTACCCCAAGCCAACAGGTTTTAAGCCTCCCTTACTCAAAAATGAACCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_145808
Insert Size:	3800 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:	<u>NM_145808.1, NP_665807.1</u>
RefSeq Size:	3770 bp
RefSeq ORF:	357 bp
Locus ID:	136319
UniProt ID:	<u>P58546</u>
Cytogenetics:	7q33
Domains:	ANK
Gene Summary:	The transcript produced from this gene is bi-cistronic and can encode both myotrophin and leucine zipper protein 6. The myotrophin protein is associated with cardiac hypertrophy, where it is involved in the conversion of NFkappa B p50-p65 heterodimers to p50-p50 and p65-p65 homodimers. This protein also has a potential function in cerebellar morphogenesis, and it may be involved in the differentiation of cerebellar neurons, particularly of granule cells. A cryptic ORF at the 3' end of this transcript uses a novel internal ribosome entry site and a non-AUG translation initiation codon to produce leucine zipper protein 6, a 6.4 kDa tumor antigen that is associated with myeloproliferative disease. [provided by RefSeq, Jul 2008]