

Product datasheet for **MR218753**

Tom1l2 (NM_001039092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tom1l2 (NM_001039092) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tom1l2
Synonyms:	2900016I08Rik; A730055F12Rik; AU042072; Srebf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218753 representing NM_001039092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTTCCTGCTGGGGAATCCGTTACGACCCCTGTAGGGCAGTGTCTTGAGAAGGCAACAGATGGCT
 CCCTGCAGAGCGAGGACTGGACTGAATATGGAGATCTGTGACATCATCAACGAGACAGAGGAAGGCC
 AAAGGATGCCATCCGGGCTCTAAAGAAGCGGCTTAGTGGGAACCGAACTACAGAGAAGTATGTTGGCC
 CTGACGGTCTGGAGACTTGTGTGAAGAACTGTGGCCACCGCTTTCATCTCCTCGTGGCCAAACCGAGACT
 TCATCGACAGCGTTCTGGTCAAATTAATCTCTCCAAGAATAACCCTCCACTATCGTCCAGGACAAAGT
 GCTGGCTCTAATTCAGGCATGGGCAGATGCCTTAGGAGCAGTCTGACCTCACAGGTGTTGTGCACATA
 TATGAAGAACTGAAGAGGAGGGGATTGAGTCCCATGGCGACTTGGACGCCCTGTCTCTATCCACA
 CACCCAGCGGAGTGTCCAGAAATGGATCCAGCTGCCACCATTCCAGGTCCAGACACAGCCAGGAC
 AACCGCTGGCACCTATTCTCACCTCCTCCAGTTCCTACTCTACTCTGCAGGCCCGGCTGTAGTGTG
 ACGGGCCCATCACAGCAATTCAGAACAGATTGCCAGGCTGCGCAGTGAGCTGGACATTGTTCCGGGAA
 ACACAAAAGTCATGTCTGAGATGTTAACAGAAATGGTCCCTGGGACAGGAGGATTCTTCTGATCTGGAAT
 ACTACAGGAATTGAACAGGACCTGCCGAGCCATGCAGCACCGCATAGTGGAGCTCATCTCCCGAGTGTCC
 AATGAGGAGGTCACCGAGGAGCTGCTGCACGTCAACGATGACCTCAACAATGTCTTCCCTCCGCTATGAGA
 GGTTCCGAGAGGTACAGGTCCGGCCGATCCGTTTCAAGATGCCAGCAATGGAGTACTAAGCGAAGTTACTGA
 AGACAACCTAATAGACCTGGGCCCGGCTCCCGGCTGTGGTTAGCCCCATGGTGGGAGCACAGCACCC
 CCATCTTCTCTCTCTCCAACCTCGCAGGCTTGGACTTGGGACAGAGAGTGTGAGTGGCACCCCTCAGTT
 CACTTCAGCAGTGAAGCCACAAGATGGTTTTGACATGTTTGGCCAGACCAGAGAACTCCTTGCTGA
 ACAGCGAAAAACGGTACCTATGAGGATCCCGAGGCTGTTGGAGGACTCGCTTCTGCACTTGACAATCGG
 AAACAGAACTCAGAAATGAAGGGTGACGACCTAGAAGAGGGTGTACAAGTGAAGAGTTCGATAAGTTCC
 TGGAAGAAAGAGCCAAAGCTGCAGAAACAGTTCAGACCTGCCCTCACCCCGACAGAGGCCCTGCACC
 AGCCTCAAACACTTCAACCCGGAAGAAGCCAGAGCGCTCCGACGATGCGCTCTTTGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218753 representing NM_001039092
 Red=Cloning site Green=Tags(s)

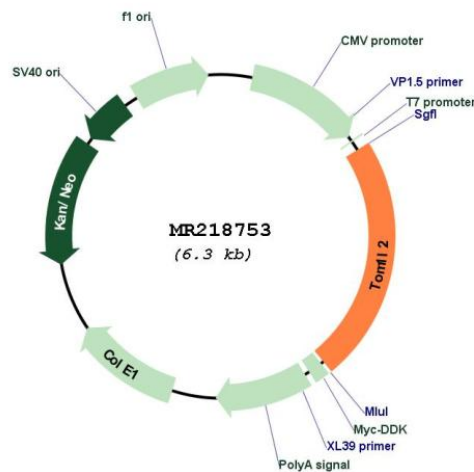
MEFLLGNPFSTPVGQCLEKATDGSLSQEDWTLNMEICDIINETEEGPKDAIRALKKRLSGNRNYREVMLA
 LTVLETVCVKNCGHRFHLLVANRDFIDSVLVKIIISPKNNPPTIVQDKVLALIQAWADAFRSPDLTGVVHI
 YEELKRRGIEFPMADLDALSPIHTPQRSVPEMDPAATIPRSQTQPRTTAGTYSSPPASYSYTLQAPALSV
 TGPITANSEQIARLRSELDIVRGNTKVMSEMLTEMVPGQEDSSDLELLQELNRTCRAHQHRIVELISRVS
 NEEVTEELLHVNDLNNVFLRYERFERYSRGRSVQNASNGVLSEVTEENLIDLPGSPAVVSPMVGSTAP
 PSSLSSQLAGLDLGTESVSGTSSLQQCKPQDGFDMFAQTRGNLAEQRKTVTYEDPQAVGGLASALDNR
 KQNSEMGDDLEEGVTSEEFDFLEERAKAAETVPDLPSPPTTEAPAPASNTSTRKKPERSDDALFAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001039092

ORF Size:

1461 bp

OTI Disclaimer:

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](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001039092.4](#)

RefSeq Size: 4940 bp

RefSeq ORF: 1464 bp

Locus ID: 216810

UniProt ID: [Q5SRX1](#)

Cytogenetics: 11 B2

MW: 53.8 kDa

Gene Summary: Probable role in protein transport. May regulate growth factor-induced mitogenic signaling (By similarity).[UniProtKB/Swiss-Prot Function]