

## Product datasheet for MR211809

### Tonsl (NM\_183091) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tonsl (NM_183091) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tonsl
Synonyms:	2810439M11Rik; Nfkbil2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211809 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGACCCAGCGGAACTGAGTGAGATGAGGACCCGTCTCTACCTCAATCTGGGTCTCACCTGTGAGA  
GCCTGCAACAGACAGCCCTGTGCAACAACACTTCAAAAAGAGCATCTTTCTTGCTGAGCAGAACCATCT  
CTATGAAGATCTGTTCCGGGCCGATACAACCTGGGTGCCATCCACTGGCGGGAGGGCAGCACTCTCAG  
GCCATGCGCTGCTTAGAAGGGGCCCGGAATGTCCCGTGTCTATGAAGATGAGATTCATGGAGAGTGAAT  
GTTGCGTGTAGTGTCCAGGTGCTCAAGATCTGGGGGACTTCTTAGCTGCCAAACGAGCCCTGAAGAA  
GGCCTATAGTTGGGCTCTCAGAAGCCTAACAGAGAGTGACTGTCTGTCAGAGTCTCAAGTATGTATTG  
GCAGTGATCCAGCTGCAGCAGCAGCTGGAAGAGGCTGAGGGCAATGATCTTCAAGGTGCCATGGCTATCT  
GTGAACAGTTGGGGGACCTGTTCTCAAAGCGGGTACTTTCCCAAGGCAGCTGAGGCTTACCAGAAGCA  
GCTGCACTTGGCTGAGCTGCTGAACAGACCAGATCTGGAGCTGGCTGTTATCCACGTATCCCTGGCCACC  
ACACTGGGAGACATGAAGGATCACCGCAAGGCTGTGCACCACTATGAGGAAGAACTGAGGCTGCGCAAGG  
GCAACGCTCTGGAGGAAGCTAAGACTTGGTTCAACATTGCCCTGTACGTGAGGAGGCTGGAGACGCATA  
CGAGCTGCTAGCTCCATGCTTCCAGAAGGCTTTTTGCTGTGCCAGCAGGCCAGAGATTCAGCTGCAG  
AGGCAGATCTTACAGCACCTTTATACCGTGCAACTAAAGTTGCAGCCACAAGAAGCCCGTGACACTGAAA  
TCAGACTGCAGGAAGTATGGCAAAAAGACACAGAAGAAGAGGAGGAGGAAGAGGAGGAAGAAGAGGA  
AGAAGCCAGTGAGGCCCCAGAGACCAGTGAAGTGAAGTCTCAGAGAGCGAGGATGATGCTGACGCCTG  
TCTCAGCAGCTGGAAGAAGATGAGGAGCTTCAAGGCTGTGTGGCCGGCGGAAGGTGAACAAGTGAACCC  
GGCGCAATGACATGGGAGAGACCCTGCTGCACCGAGCTTGCATTGAAGGCCAACTGCGTCGTGTCCAGGA  
TCTTGTGAAGCAGGGCCATCCCCGAATCCCCGAGACTACTGCGGCTGGACACCTCTCCATGAAGCATGC  
AACTATGGACATCTTGAGATTGTTGCTTCTTCTGGACCATGGAGCAGCAGTGGATGACCCAGGTGGCC  
AGGGGTGTGATGGCATCACCCCTGCATGACGCCCTCAACTGTGGCCACTTTGAGGTAGCTGAATTACT  
CATTGAGCGAGGGCATCCGTGACTCTCCGTACCAGGAAGGGCTCAGCCCACTGGAGACTGCAGCAG



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TGGGTGAAGTTGTA CTTCAGGGACCTTGACCTTGAGACAAGACAGAAGGCGGCAACCATGGAGGAGAGGC  
 TCCAGATGGCCTCCTCAGGCCAAGCTTCCCAGCTCCCCTGCCCTCCAGACCATTCCAAGTAACCATCT  
 ATTTGACCCTGAGACCTCTCCTCCCTCAAGCCCCTGTCCAGAACCCTCCTCATATACTCCTAGACCTCCA  
 GAGGCCTCTCCGGCCCTGCTAAAGTCTTTCTGGAGGAAACTGTGTCTGCCGTGTCCCGACCTCGAAAGA  
 CCAGGCACAGACCAACCAGCAGCAGTAGCAGCTCAGAGGATGAGGATAACCCAAGTCCCTGCAGGCCATC  
 GCAGAAAAGACTGAGACATACCACACAGCAGGGTGAAGTCAAGATTCTGACCCACCCAAAAGTAGAGAG  
 ACAGCCACGTCAAGTGCTTGCCGGGCGGCTTACCAAGCGGCCATCCGAGGCGTGGGTAGTGCCAGAGCC  
 GTCGCTTGGTGCCTAGCCTGCCTCGGGGCTCAGAGGAAGTCCCTGCCCCCAAGACAGCACTCATTCCCGA  
 GGAGGAATACCTGGCTGGGGAATGGCTGGAGGTAGATACACCTCTGACCCGACGCGGCAGGCCAGCACC  
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 TGTGGAAGGCTCCTCGGGCCAGGCTGCTTGCAGAACTTGAGGAGCTGGACTTGAGTATGAACCCACTA  
 GGAGATGGCTGTGGTCAAGCCCTGGCCTCCCTTCTGCGGGCTGCCCATGCTCAGCACCCCTGCGCTAC  
 AGGCCTGTGGCTCAGTCCAGTTTCTTCTGAGCCACCAGGCTGCCCTGGGCGGTGCTTCCAAGATGC  
 TGTGCACCTGAAAACCTTGCTTATCGTACAATCTGCTCGGCGCTCCTGCCCTGGCGAGGGTGTGCAG  
 ACCTTACC CGCTGTACCCTCAAACGTCTGGACCTAAGCTCTGTGGCAGCCAGCAAGAGCAACTCGGGTA  
 TCATAGAGCCTGTTATCAAATACTTGACCAAGGAAGGCTGTGCTCTGGCCACCTAACCTGTCCGAAA  
 CTGCCTGGGTGACAAGGCCGTGAGAGA ACTGAGCAGATGTCTCCCTTGTGCCCCCTCACTCACCTCTCTG  
 GACCTGTCTGCCAACCCGAGGTCAGCTGTGCCAGTCTAGAGGAGCTCTTGTCTGCCCTCCAAGAGCGGT  
 CCCAAGGCCTCAGCTTCTTGGCCTATCAGGCTGCTCTATTCAAGGGCCGCTGA ACTCTGACCTCTGGGA  
 CAAGATCTTCGTGCAGTTGCAGGAGTTGCAACTGTGCACCAAAGACCTGAGCACCAAAGACCGAGACTCG  
 GTGTGTCAGAGACTGCCAGAGGGTGC GTGCACAATGGACCAAAGTCCAAGCTCTCTTTAATGCCTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211809 protein sequence  
 Red=Cloning site Green=Tags(s)

MLTQRELSEMRTRYLNLGLTCESLQQTALCNFYFKSIFLAEQNHLYEDLFRARYNLGAIHWRGGQHSQ  
 AMRCLEGARECARAMKRMFMESECCVLVSQVLQDLGDFLAAKRALKKAYRLGSQKPNQRTVVCQSLKYVL  
 AVIQLQQLEEAEGNDLQGAMAICEQLGDLFSKAGDFPKAAEAYQKQLHLAELLNRPDLELAVIHVSLAT  
 TLDGMDHRKAVHHYEEELRLRKGNALEEAKTWFNIALSREEAGDAYELLAPCFQKAFCCAQQAQRFQLQ  
 RQILQHLTYVQLKLPQAEARDEIRLQELSMAKDTEEEEEEEEEEEASEAPETSELELSEDDADGL  
 SQQLEDEEELQGCVGRRKVNKWNRRNDMGETLLHRACIEGQLRRVQDLVKQGHPLNPRDYCGWTPLEAC  
 NYGHLEIVRFLLDHGAAVDDPGGQCGDITPLHDALNCGHFEVAELLIERGASVTLRTRKGLSPLETLQQ  
 WVKLYFRDLDETRQKAATMEERLQMASSGQASRSPALQTIPSNHLFDPETSPSPSPCPEPSSYTPRPP  
 EASPAPAKVFLEETVSAVSRPRKTRHRPTSSSSSEDEDNPSPCRPSQKRLRHTTQQGEVKIPDPPKSRE  
 TATSSACRAAYQAAIRGVGSAQSRRLVPSLPRGSEVPAPKTALIPEEEYLAGEWLEVDTPLTRSGRPST  
 SVSDYERCPARPRTRVKQSRLTSLDGWCARTQAGDGSLSNAEPAENPSVPRTSGPNKENYAAGQPLLVQP  
 PPIRVRVQIQDNFLIPVPQSDIRPVAWLTEQAAQRYFQTCGLLPRLTLRKDGALLAPQDPDPVQLQSN  
 EVLAEVTSWDLPLKDRYRRACLSLGQGEHQVLAHMDHQSSSPFSACSLALCQAQLPPLLRLKHLHTA  
 LRELRLAGNRLGDACATELLATLGTTPNLVLLDLSSNHLGQEGRLQVEGSSGQAALQNLEELDLNPNL  
 GDGCGQALASLLRACPLSTLRLQACGSSFFLSHQAAALGGAFQDAVHLKTLKSLYNLLGAPALARVQL  
 TLPACTLKRLDLSSVAASKSNSGIIIEPVIKYLKTEGCALHLTLSANCLGDKAVRELSRCLPCCPSLTS  
 DLSANPEVSCASLEELLQALQERSQGLSFLGLSGCSIQGPLNSDLWDKIFVQLQELQLCTKDLSTKDRDS  
 VCQRLPEGACTMDQSSKLLFFKCL

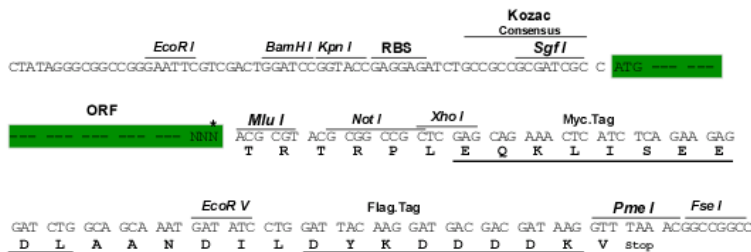
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



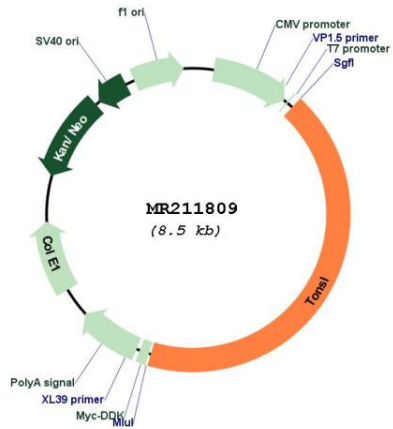
\* The last codon before the Stop codon of the ORF

ACCN: NM\_183091

ORF Size: 3642 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183091.2</a> , <a href="#">NP_898914.2</a>
<b>RefSeq Size:</b>	4239 bp
<b>RefSeq ORF:</b>	4092 bp
<b>Locus ID:</b>	72749
<b>UniProt ID:</b>	<a href="#">Q6NZL6</a>
<b>Cytogenetics:</b>	15 D3
<b>MW:</b>	134.1 kDa
<b>Gene Summary:</b>	Component of the MMS22L-TONSL complex, a complex that stimulates the recombination-dependent repair of stalled or collapsed replication forks. The MMS22L-TONSL complex is required to maintain genome integrity during DNA replication by promoting homologous recombination-mediated repair of replication fork-associated double-strand breaks. It may act by mediating the assembly of RAD51 filaments on ssDNA. Within the complex, may act as a scaffold (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211809