

Product datasheet for RN210543

Tonsl (NM_001130572) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tonsl (NM_001130572) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Tonsl
 Synonyms: Nfkbil2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN210543 representing NM_001130572
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACGCTGGAACAGGAGCTTCGCCAGCTGAGCAAGGCGAAGGCCAGGGCCAGAGGAATGGACAGCTGT
 GCGAGGAGGCGGTCTGCTGCCACCAGCTGGGGAGCTGCTAGCTAGCCACGGTCGCTTCCAGGAAGCTTT
 AGAGGAGCACCAGCAGGAGCTACATCTGCTAGAGAGTGTCCAGGACACCCTAGGCTGCGCTGTGGCCAC
 CGCAAGATCGGAGAGCGGCTGGCTGAAATGGAGAACTACTCTGCTGCTCTGAAGCACCAGCATCTTACC
 TGGATCTAGCTGGTTCCTGTCCAACCACACTGAATTGCAGAGAGCCTGGCCACCATTGGCCGACCCCA
 TCTGGATGTATATGACCACTGCCAATCAAGAGATTCTTGTGTCAGGCACAGGCTGCCTTTGAGAAGAGT
 TTGGCTATTGTGGATGAGAACTAGAGGGGATGCTGACCCAGCGGGAAGTGTGAGATGAGGACCCGTC
 TCTACCTCAATCTGGCCCTCACCTGTGAGAGCCTGCAGCAGACAGCCAGTGAACAACACTTCAAAAA
 GAGCATCTTTCTCGCTGAGCAGAACCATCTGTATGAAGATCTGTTCCGGGCCGATACAACCTGGGTGCC
 ATCCACTGGCGCGGAGGGCAGCACTCTCAGGCCATGCGCTGCTTGGAGGGGGCCCGGGAATGTGCACGTG
 CCATGAAGATGAGATTTCATGAAAAGCGAATGTTGCATGCTAGTGTCTCAGGTGCTCCAAGATCTGGGGGA
 CTTTCTGGCTGCCAAACGAGCCCTGAAGAAGCCCTATAGGTTGGGCTCTCAGAAGCCTAACCAGAGAGTG
 GCTATCTGTGAGAGTCTCAAGTATGTATTGGCCGTGGTCCGGCTGCAGCAGCAGCTGCAAGAGGCTGAGG
 GCAATGATCTTCAAGGTGCCATGGCTATCTGTGAACAGTTGGGGACCTTTTCTCCAAGCCGATGACTT
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 GCTCAGCAGGCCAGCGTACCAACTGCAGAGGCAGATCTTACAGCATCTTACTGTGCAACTGAAGT
 TGACGCCCAAGAAGCCGTGACACTGAAATCAGACTGCAGGAGCTGAGTATGGCAAAAGACACAGAGGA
 AGAGGAGGAAGAAGAGGAGGAGGAAGAGGAAGAAGCCAGTGAGGCCCTGGAGACCAGTGAATGGAGCTC
 TCAGAGAGCGAGGATGATGCTGACGGCCTGTCTCAGCAGCTGGAGGAAGAGGAGGAGCTTCAGGGCTGTG



TGGGGCGCGGAAGATAAACAAGTGAACCGGCGCAATGACATGGGAGAGACCCTGTTGCACCGAGCTTG
 CATCGAAGGCCAACTGCGCCGTGTCCAGGATCTTGTGAAGCAGGGCCATCCCCTGAATCCCCGAGACTAC
 TGTGGCTGGACTCCTCTACATGAAGCTTGAACATATGGACATCTTGAGATTGTGCGCTTCTCTGGACC
 ATGGAGCAGCAGTGGATGACCCGGTGGCCAGGGGTGTGATGGCATCACCCCTGCATGATGCCCTCAA
 CTGTGGCCACTTTGAGGTAGCTGAGCTCCTCATTGAGCGAGGGCGTCCGTAACCTCTCCGCCACGGAAG
 GGCCTCAGCCCCTGGAGACACTGCAGCAGTGGGTGAAGCTGTACTTCAGGGATCTTGACCTTGAGACAA
 GACAGAAGGCCCGCATCCATGGAGAGGAGGCTCCAGATGGCTCCTCAGGCCAAGCTTCCCACAGTCCCC
 TGCCTCCAGACCATTCCAAATAATCATCTCTTCGACCCTGAGACCTCTCCTCCCTCAAGCCCTGTCCA
 AAACCCCTCGTATACTCCTAGACCTCCAGAGCCTCTCCAGCCCTGTAAAGTCTTTCTGGAGGAAA
 CTGTGTCTGCAGTGTGCAGACCTCGAAAGAACAGGCACAGGCCAGCCAGCAGCAGTAGCAGCTCGGAGGA
 CGATGACGACAACACAAACCCCTGCAGGCCATCTCAGAAAAGACTGAGACACAGCACACAGCGGTGAA
 GCCAAGACACCTGACCCATCCAAAAGTAGAGAGACAGCCATTTCAAGCGCTTGCCGGGCTGCTTACCAAG
 CAGCCATCCGAGGCGTGGGAGTGCCAGAGCCGTCGCTTGGTACCTAGCCTGCCTGGGGCTCAAATGA
 AGTCCCTGCCCCAAAACAGCACTATTCTGAGGAGGAATTCCTGGCTGAGGAATGGCTGGAGGTAGAT
 ACACCTTGACCCGAGCAGCAGCAGCAGCAGGCCCAGTACCTCCATATCAGACTATGAGCGATGCCCTG
 CAAGGCCCCGGACTCGTGCCAAGCAGAGTCGCCAGCAAGTCTTGATGGTTGGTGTACACGGACTAAAGC
 AGCAGATGCCAGCTTGACTGCAGAGCCTACGGAGAATCCAGCATGCCAAGGACCACAGGCCAACAAA
 GAAAATTGTGCAGCAGGCCAGCCTTTGCTTCTGGTCCAGCCCCTCCTATCCGGGTTTCGAGTTCAAATTC
 AGGACAACCTTTTCTCATCCCCGTCCCACACAGCGATGTCCATTCTGTGGCTTGCTAGCAGAGCAAGC
 GGCCACAGCGCTACTTCCAACTTGCAGGCTACTCCAAGGCTCACCTACGGAAGGATGGAGCACTAGT
 GCCCCACAGGACCCATCCCTGATGTGTGCAAGTAACGACGAGGTGATGGCTGAAGTAACGTCATGGG
 ACCTTCTCCACTAAAGGACCGTACCGTAGGGCTGCCAGAGCCTGGGCAAGGGGAGCACCAGCAAGT
 GCTGCAGGCCATGGAGCACAGAGTTCGAGCCCTCGTTTAGTGCCTGTTCTCTGGCCTTGTGCCAAGCC
 CAGCTCACACCCCTGCTGAGGGCCCTCAAGTTACACACAGCACTCCGGGAGCTACGCCTTTCTGGGAACC
 GACTGGGTGACCCATGTGCTACTGAGCTACTGGCTACCCTGGGACCATGCCAACCCTGGTCTCTCGA
 TCTCTTCCAATCACTTGGGCCGGAAGGCTGCGTCAGCTTGTGAAGGCTCCTTGGGCCAGACTGCT
 TTCCAGAAGCTGGAGGAAGTACTTGGATGAATCCACTGGGAGATGGCTGTGCTCAGGCCCTGGCCT
 CCCTTCTGCGGACCTGCCCCGTGCTCAGGACCTTGGCTTACAAGCCTGTGGTTTCAGCCCCAGCTTCTT
 CCTGAGCCACCAGGCTGCCCTGGTGTGCTTCAAAGATGCTGAGCACCTCAAGACCTGTCCCTATCT
 TACAATACTCTCGGCGCTCCTGCCCTGGCAAGGGTGTGCAGAGCTTACCCACCTGTACCCTCTACATT
 TGGAGCTTAGCTCCGTGGCAGCCAGCAAGGAACTCGAGTCTCATAGAGCCTGTATCAAATACTTGAC
 CAAGGAAGGCTGTGCTCTGGCCACCTAACCTGTCTGCAAACTGCCTGAGTGACAAGGCTGTGAGAGAA
 CTGAGCAGATGTCTCCCTAGCTGCCCTCACTCACCTCTCTGGACCTGTCCGCCAACCTGAGGTAGCT
 GTGCCGTCTGGAGGAGCTCCTGTCTGCCCTACAGGAGCGGCCCAAGGCCTCAGCTTCTTTGACTTGT
 AGGCTGTCCATTAGGGGCCCTGAACTCTGACCTCTGGGACAAGATCCTCTCGCAGTTGCAGGAGCTG
 CAGTTGTGCAGCAAAGACCTGACCACAAAAGACCGAGACACCTGTGTGTCAGAGACTGCCGGCGGGTGC
 GCACACTGAACCAAGGTTCAAGCTTCTTTAAATGCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001130572

Insert Size: 4104 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:	<ol style="list-style-type: none">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_001130572.1, NP_001124044.1</u>
RefSeq Size:	4246 bp
RefSeq ORF:	4104 bp
Locus ID:	366953
UniProt ID:	<u>D4A615</u>
Cytogenetics:	7q34
Gene Summary:	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]