

Product datasheet for MC225314

Tpr (NM_133780) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpr (NM_133780) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tpr
Synonyms:	2610029M07Rik; C77892
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225314 representing NM_133780 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTCTGGTGGCTCGGCTTCTAGAAGTGCCACAGAGGAGTACCCATGACATCCCGGGTTTTGACG
GGTCCC CGCGGGAGTCTCAGGCGGGCAGGCGCGGAGAGACCGCGAGCGAGGGCGGGACGGGGCGGC
TCCGGCGGCTGGGCTCCGCGCTTCTCCTTGCTCCTTGCTTCTCCTT CAGCCGCTGCGGCTGTTGCCGCG
ATCCC CGCGGACATGGCGCGGTGTTGCAGCAAGTGTGGAGCGCCCGAACTGAACAACTGCCAAGT
CGACGCAGAACAACTTGAGAAGTTCCTGGCCGAGCAGCAGTCCGAGATCGACTGCCTGAAGGGGCGGCA
CGAGAAATTTAAGGTGGAGAGTGAACAACAATACTTTGAGATAGAGAAGAGGCTCTCACAGAGTCAGGAG
AGGCTTGTCACTGAAACCCGGGAGTGTCAAGAACTTGAGGCTGGAGCTTGAGAAGCTAAATAACCAAGTAA
AAGTGTTAACTGAAAAACCAAGAAGTGGAACTGCTCAAGACCGTAATCTGGGCATT CAGAGCCAGTT
TACAAGAGCAAAGGAAGAGTTAGAAGCTGAAAAAGAGATTTAATCAGAACCAATGAGAGGTTATCTCAG
GAACTTCAGTTAAAGCTGGATGAACCTCAAGCTTCTGATGTTGCTGTGAAGTATCGAGAAAAACGCTT
AGAACAAGAAAAAGGAATTGCTACACAATCAAAATTCATGGCTGAACACAGAGTTGAAAACCAAACTGAT
GAGCTGTTGGCTTAGGAAGAGAAAAAGGAAATGAAATTCGAACTTAAGTGTAATCTTGAAAAACAAA
AAGAAGAGGTTCTGAGACTGGAAGAACAGATGAATGGCTTGAAAACATCAATGAACATCTTCAGAAAACA
TGTAGAGGATTTGTTGACAAAATTTAAAGAGGCCAAAAGAACAGCAGGCCAGTATGGAAGAGAAAATCCAC
AATGAGTTAAATGCTCACATAAAGCTCTCTAATCTCTACAAGAGCGCTGCTGATGACTCAGAGGCAAGA
GTAATGAGCTAACCCGGGAGTGGACGAGCTGCACAACTGCTCAAGAAGCAGGAGAAGCCAACAAAAC
AATACAAGATCATCTTCTACAAGTGAAGAATCTAAAGATCAGATGAAAAAGAAATGCTTGAGAAAATA
GAAAAATTTGAGAAGGAATTAGAGAATGCAAAATGACCTGCTTTCTGCTACAAAACGTAAGGAGCTATAT
TGTCTGAAGAAGAGCTTGACCCATGTCTCCACCGCAGCAGCTGTAGCTAAAATTTGTAAGCCTGGCAT
GAAATTAAGTATATAATGCTTATGTGAAACTCAGGATCAGTTGCTTTTGAAAAACAAGAAAAT
AAAAGGATTAATAAGTATCTGGATGAGATAGTAAAGAAGTGAAGCCAAAGCACCATTGTAACGCC



[View online »](#)

AGCGCGAAGAGTATGAGCGTGCACAGAAAGCTGTGGCCAGTCTTTCTGCAAAGCTTGAGCAAGCTATGAA
 GGAGATTCAGCGATTGCAGGAGGACACTGATAAAGCCAACAAACATTCATCGGTACTTGAAGGGACAAT
 CAGAGAATGGAATACAAATAAAAGACCTTTCCGAACAGATAAGAGTGCTCTTGATGGAACCTTGAAGAAG
 CCAGGGGTAACCATGTAATTCGGGATGAGGAGGTGAGCTCTGCTGACATCAGTAGTTCGTCTGAAGTGAT
 TTCGCAGCACCTAGTATCTTACAGGAACATCGAAGAGCTTCAGCAGCAGAATCAGCGTCTGCTATTTCGCT
 CTTTCGAGAACTTGGGAAACCAGGGAACGAGAAGCAAGAGACAACCTTCTCTAAGATTGCTGAACCTC
 AGCATAAACTTGAAGACTCTCTCGCTGAACTGGAACAGCTCCGTGAGTCACGACAACATCAGATGCAGCT
 TGTGGATTCCATAGTGCGTCAGCGTGACATGTACCGAATTTTATTGTACAAAACAACAGGAATGGCCATT
 CCCTTACAAGCTTCAAGTTTAGATGATATTTCTCTTCTCAACTCCAAAACGTTCAAGTACATCAGAGA
 CTGTTTCCACTCTGCTCCGGAACCCGTCATTGACTCCACAGAGGCTATAGAAGCAAAGGCTGCCCTTAA
 ACAGTTGCAGGAAATCTTTGAGAACTATAAAAAAGAAAAATAGACAGTGAGAACTTCAAAATGAGCAG
 CTAGAGAACTTCAAGAGCAAGTCACAGACCTGCGCTCACAAAACACCAAAATTTCTACTCAGCTAGATT
 TTGCTTCAAACGTTATGAAATGCTGCAAGATAATGTAGAAGGATATCGTCGAGAAATAACATCTCTACA
 AGAGAGAAATCAGAACTCACTGCAACTACTCAGAAGCAGGAACAGATCATCAACACAATGACGCAAGAC
 TTGAGAGGAGCCAATGAAAAGCTAGCAGTTGCAGAAGTAAAGAGCAGAAAAATTAAGAAGGAAAAAGAAA
 TGCTTAAATTGTCTGAAGTCCGTCTTCTCAGCAAAGAGAGTCTTTGTTAGCTGAACAGAGGGGGCAGAA
 CTTGTTGCTGACTAATCTACAGACAATCCAGGGCATACTAGAGCGATCTGAGACTGAAACCAAAACAAGG
 CTGAATAGCCAGATAGAAAACTGGAGCATGAGATCTCTCACTTGAAGAAGAAATGGAAAAACGAGGTGG
 AACAAAGACATACGCTTACGAGGAATCTAGACGTTCAACTATTAGATACCAAGAGACAGCTAGATACAGA
 AATAAATCTCCATCTTAACACAAAAGAAGCTGTTAAAAATGCTCAGAAGGACATTGCTACTGAAACAG
 CACCTTAATAATGGAAGCCCAGCTCGCTTACAGTCCACACAGAGAACCGGTAAGGTGAGCCTGGTG
 ACAGAGATGACGTTGATGATCTTAAAAGTCAGTAAGGCAGGCTGAAGAACAGGTCAATGACTTGAAGGA
 GAGACTCAAGACAAGTACCAGTAATGTGGAGCAGTATCGAGCCATGGTGACCAGCTTGAAGATTCCTG
 AACAAAGGAGAAAACAGGTGACTGAGGAGTTCATAAGAACATTGAAGTTCGCTTGAAGAATCAGCAGAGT
 TTCAGACACAGTTGGAGAAGAAATGATGGAAGTAGAGAAGGAAAAGCAAGAACTTCAGGATGATAAGAG
 GAAAGCCATCGAGAGCATGGAACAGCAATTAAGTGAATTGAAGAAAACTGTCTACTGTTGAGAAATGAA
 GTACAAGAAGCTCTCAGAGAGCAAGCACAGCTTAAAGTAAATGAACAGCAAGCCAGGCGTACTGTCAGG
 AACAAAGCTAAAATCGCTGTGGAAGCCCAGAAATAAGTATGAGAGAGAATTGATGCTACATGCTGCTGATG
 CGAAGCTCTGCAAGCTGCCAAGGAACAGGTTTCAAAAATGACATCAATCCGTGAGCATTGGAAGAAACA
 ACTCAGAAAGCAGAAATCCAGTTGTTGGAATGTAAGCATCTTGGGAAGAGAGAGAGAGTGTGAAAGG
 ATGAAGTTTCAAAAAGTGTGCTCGCTGTGAAGATCTAGAGAAACAAAACCGACTACTTCATGATCAAAAT
 CGAAAAATTAAGTGACAAGGTGGTCACCTCTATGAAGGATGCTGTGCAAGCGCCATTAATGATATCTCTC
 AATGAAGAAGGGAATCTCAAGAACAATTTCTAGAAATTTCTAGATTTATTTCGACGAGAAAAAGAAATG
 CTGAAACTAGGTTTGAGGTGGCTCAGGTTGAGAGTTTGCGGTATCGACAAAGAGTTGAACTTCTAGAACG
 GGAGTTGCAAGAAGTGCAGGATAGCCTGAATGTGGAAAGGAAAAAGGTGCAGGTAAGTGCAAAAACAATG
 GCGCAACATGAAGAGCTGATGAAGAAAAGTGAACAATGAACGTTGTTATGGAGACCAACAAGATGCTAC
 GGGAGGAAAAGGAAAGGCTCGAACAGAACCTACAACAAATGCAAGCCAAGGTGAGGAACTGGAGTTAGA
 CATTTCACCTTACAAGAAGCCAATGCTGAGCTGAGTGAGAAAAGCGGTATGCTCCAGGCCAGAAAAGAAG
 CTACTGGAAGAGGATGTTAAGCGTTGGAAGCACGGAACCAAGCAACTAATAAATCAACAGAAAGATCCAG
 ACACAGAAGAATATCGAAAGTTGCTTTCTGAAAAGGAAATTCACACTAAGAGAATCCAACAGCTAAATGA
 AGAAGTTGGAAGGCTTAAAGGCTGAAATTGCAAGATCAAATGCATCCTTGACTAACAAACCAGAAATTAATC
 CAGAGTCTGCGGGAAGACTTAAAGTAAAGCACGGACTGAAAAGGAAAGCATTGAGAAAGATTTAGATGCCA
 AAATAATTGATATACAGGAAAAGGTCAAAAACAATCACTCAAGTCAAGAAAATGGACGCAGGTACAAGAC
 TCAGTTTGAAGAAGTGAAGCGCAACAAAACAAGGCCATGGAGACTTCCACTCAGTCTTCAGGAGACCAT
 CAGGAACAGCACATCTGTCCAGGAAATGCAGGAGCTCAAAGATACCCTCAGCCAATCCGAAACAAAGA
 CAAAGTCACTTGAGGGTCAAGTAGAGAATCTGCAGAAGACATTATCTGAAAAAGAGACAGAAGCAAGAAG
 TCTCCAGGAGCAGACGGTGCAGTTCAGTCTGAACTGTACGCCTTCGTCAGGACCTCCAGGATAAAACC
 ACAGAGGAGCAGCTCCGACAGCAAAATGAATGAAAAGACTTGAAGACACTTGCCTAGCCAAATCAAAAA
 TTACACATCTATCTGGTGTGAAAGATCAGCTGACTAAAGAAATTAAGAAGTAAACAAAGGAACCGGAGC
 TCTAGATCAGCAGAAAGATGAGCTTGTGTCGCAATGACTGCTCTTAAAGTCCCAGTATGAAGGTCGGATT
 AGTCGCTTAGAGAGAGAGCTCAGAGAGCATCAAGAGCGACACCTTGAGCAGAGGGATGAGCCTCAAGAAC
 CCCTAATAAGGCTCCAGAACAGCAAAGACAAATCACACTGAAAACCACTCCAGCTTCTGGTGAAGAGG

AATTGCCAGCACATCAGACCCACCAACAGCCAATATCAAGCCAACCTCTGTTGTTTCTACTCCAAGTAAA
 GTGACAGCTGCAGCTATGGCTGGGAATAAGTCGACACCCAGGGCAAGTATCCGCCAATGGTTACACCTG
 CAACGGTCACAAAATCCGACCACTACCCCAACAGCAACCGTAATGCCTACTACACAGGTGGAGTCACAGGA
 AGCTATGCAGTCAGAAGGGCCTGTGGAACATGTTCCAGTATTTGGAAACGCAAGTGGATCTGTTCTGTTCT
 ACTAGTCTAATGTTTCAGCCCTCCATTTCTCAGCCCATCTAACTGTACAGCAGCAAACACAAGCTACAG
 CTTTTGTACAACCACTCAACAGAGCCACCCGAGATTGAGCCTACAAATCAAGAATTGTCCCAAAACAT
 AGTTGAGGTAGTACAAAGTTCCCAAGTGGAGCTCCATCTACTCCACAGCAGTATTTGGCACTGTTTCA
 GCTACCCCAAGTTCCCTTGGCAAAGCGCACTCGGGAGGAGGAAGAGGACAGCACCATGGAAGCAGGAG
 ACCAAGTCTCTGAGGACACAGTGGAATGCCTCTCCCGAAGAAGCTGAAGATGGTCACACCCGTTGGAAC
 CGAGGAAGAAGTTATGGCAGAAGAAAGTACTGATGGAGAGGCAGAAACTCAAGCCTATAATCAGGACTCT
 CAAGATTCATTGGAGAAGGAGTTACCCAGGGAGATTATACACCAATGGAAGACAGTGAAGAAAACATCAC
 AATCTCTACAAATCGATCTTGGACCACTTCAGTCAGATCAACAGACTACTTCTCTCAAGATGGTCAAGG
 CAAAGGAGATGATGTAATTGTAATTGACAGTGTATGATGAAGATGATGATGAAGAAAATGATGGCGAACAT
 GAAGATTATGAAGAAGACGAAGATGATGATGATGATGAAGAAGATGACACGGGGTGGGAGATGAGGGTG
 AAGATAGTAATGAAGAACTGGTAGTGCAGATGGTAATGATGGATATGAAGCTGATGATGCTGAGGGTGG
 TGATGGGACTGATCCAGGTACAGAAACAGAAGAAAGTATGGGTGGAGCTGAAAGTCATCAGAGAGCTGCT
 GATTCTCAAAAACAGTGGTGAAGGAAATACAAGTGCAGCAGAGTCTTCTCTCTCAGGAGGTTGCCAGGG
 AACAGCAGCCACGTCAGCGTCTGAGAGACAGACTCCGCAAGCACCGCAGTCACCAAGGCGCCCTCCACA
 TCCTCTCCCCCAGCCTGACCATTCACGCCCCACCTCAGGAGCTGGGACCACAGTTTCCAGAGAATTCAG
 ATGACCCGGAGGCAGTCTGTAGGGCGTGGTCTTCAGTTGACTCCAGGAATAGGTGGCATGCAACAACACT
 TTTTGTATGATGAAGACAGAAGTCCCGAGTACCCCAACTCTTGTGGTCCACATCGCACTGATGGGTT
 TGCTGAAGCTATTCATTCACACAGGTTGCCGGTGTCTTAGATTCGGGTTGGCCACCTGAAGACATG
 CCACAGCAAGTCCAGTCACTGATCTTGGCCAACTTGCTTCTCAAGGAGGTTTGGGAATGTATGAAA
 CACCCCTTTTCTGGCTCATGAAGAAGAGTCTGGTGGCCGAGCGTTCCCACTACGCCTCTCAAGTAGC
 AGCCCCAGTGACTGTGTTCACTGAGAGTACCACCTCTGATGCTTCAGAACATGCCTCTCAGTCGGTTC
 ATGGTGACAACGCTACGGGCACCTTATCCACGACAAACGAAACAGCAGCAGGTGACGACGGAGATGAAG
 TATTTGTAGAGGCGGAGTCTGAAGGATTAGTTTCAGAGGCAGGCCTAGAAATTGATAGCCAGCAGGAAGA
 GGAGCCTGTCCAAGCATCTGATGAATCAGATCTTCCCTCAACCAGCAAGATCCCCCTTCGAGCTCTCC
 GTAGATACCAGTAGTAGTCAACCGAAGCCTTTCAGACGAGTAAGACTTCAGACAACCTTGAGACAGGGTG
 TTCGTGGTCGTCAGTTAAACCGACAAGAGGTATAAGCCATGCAATGGGAGGAAGAGGAGGAATAAATAG
 AGGGAATATTAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_133780

Insert Size:

7296 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: [NM_133780.3](#), [NP_598541.3](#)

RefSeq Size: 7550 bp

RefSeq ORF: 7296 bp

Locus ID: 108989

UniProt ID: [F6ZDS4](#)

Cytogenetics: 1 G1

Gene Summary: Component of the nuclear pore complex (NPC), a complex required for the trafficking across the nuclear envelope. Functions as a scaffolding element in the nuclear phase of the NPC essential for normal nucleocytoplasmic transport of proteins and mRNAs, plays a role in the establishment of nuclear-peripheral chromatin compartmentalization in interphase, and in the mitotic spindle checkpoint signaling during mitosis. Involved in the quality control and retention of unspliced mRNAs in the nucleus; in association with NUP153, regulates the nuclear export of unspliced mRNA species bearing constitutive transport element (CTE) in a NXF1- and KHDRBS1-independent manner. Negatively regulates both the association of CTE-containing mRNA with large polyribosomes and translation initiation. Does not play any role in Rev response element (RRE)-mediated export of unspliced mRNAs. Implicated in nuclear export of mRNAs transcribed from heat shock gene promoters; associates both with chromatin in the HSP70 promoter and with mRNAs transcribed from this promoter under stress-induced conditions. Plays a limited role in the regulation of nuclear protein export. Modulates the nucleocytoplasmic transport of activated MAPK1/ERK2 and huntingtin/HTT and may serve as a docking site for the XPO1/CRM1-mediated nuclear export complex. Plays also a role as a structural and functional element of the perinuclear chromatin distribution; involved in the formation and/or maintenance of NPC-associated perinuclear heterochromatin exclusion zones (HEZs). Finally, acts as a spatial regulator of the spindle-assembly checkpoint (SAC) response ensuring a timely and effective recruitment of spindle checkpoint proteins like MAD1L1 and MAD2L1 to unattached kinetochore during the metaphase-anaphase transition before chromosome congression. Its N-terminus is involved in activation of oncogenic kinases (By similarity).[UniProtKB/Swiss-Prot Function]