

## Product datasheet for RC214233

### TPR (NM\_003292) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TPR (NM_003292) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214233 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_003292, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGCGGTCCTCCAGCAAGTCTGGAGAGAACTGAACTGAATAAATTGCCCAAGTCCGTGCAGAATA  
AGCTTGAAAAGTTCTTGCAGATCAACAATCTGAGATCGACGGTTGAAGGGTAGACACGAAAAGTTTAA  
GGTTGAGTCAGAACAACTACTTGCAGATCGAGAAAAGGCTGTCTATTCTCAAGAGCGCTTGGTGAAC  
GAGACACGCGAGTGTCTAGTCCCTTAGACTTGAAGTGGAGAAGCTCAATAACCAAGTTGAAGGCACTGACAG  
AAAAGAACAAGAGCTGGAGATCGCACAAGACAGAAATATAGCCATTCAATCCCAGTTTACCAGAACAAA  
GGAAGAGCTGGAAGCCGAGAAAAGAGACTTGATCCGCACTAACGAACGCTTGAGCCAGGAAGTGGAGTAT  
CTGACTGAGGATGTTAAAAGGCTGAACGAAAAGCTGAAGGAAAGCAATACGACGAAGGGAGAGCTGCAGC  
TCAAATTTGACGAACTTCAGGCATCCGATGTGAGTGTCAAGTATAGGGAGAAACGCTTGAGCAGGAGAA  
GGAGTTGCTGCACTCCCAGAACCTGGCTCAACACAGAGCTGAAAACAAAAACTGACGAGCTTCTCGCG  
TTGGGTAGGAAAAAGGCAACGAGATCCTTGAGCTCAAGTGAACCTCGAGAATAAGAAGGAGGAGGTAT  
CCCGCCTGGAGGAGCAGATGAACGGACTGAAAAGTGAACCAAGCAACTTGCAGAAACACGTCGAGGATCT  
GCTCACCAAGCTGAAGGAGGCAAAAGAGCAGCAGGCCAGCATGGAGGAGAAGTCCACAACGAGCTGAAC  
GCTCACATTAAGTGAACCACTGTATAAATCCGCTGCCGATGATAGCGAGGCAAAAAGCAATGAACTCA  
CTAGAGCCGTTGAGGAGCTGCACAAGCTGCTGAAAGAGGCGGGAGAGGCTAACAAGGCGATCCAAGATCA  
TCTGTTGGAGGTGGAACAGAGTAAGGATCAAATGGAAAAGGAGATGTTGGAAAAAATTTGGCCGCTTGGAG  
AAAGAAGTTGAAAATGCTAACGATCTCCTGCGCAACAAGCGCAAGGGGGCCATTCTCTGAGGAGG  
AGCTGGCCGCTATGTCCCAACAGCCCGGTCGCAAAAGATCGTCAAGCCTGGTATGAAGCTGACGGA  
GCTGTATAACGCTTATGTGGAGACACAAGACCAGCTGCTGTTGGAAAAGTTGGAGAACAAGCGCATCAAT



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AAGTATTTGGACGAAATTGTTAAGGAGGTGGAGGCCAAAGCGCCGATTTTGAAGCGGCAGAGAGAGGAGT  
 ACGAGAGAGCTCAAAAAGCAGTGGCATCCCTCTCAGTGAAGCTTGAACAGGCGATGAAAGAAATCCAGAG  
 ACTGCAGGAGGACACCGATAAAGCCAACAACAGTCTTCCGTCCTGGAGCGAGATAACCGGAGGATGGAA  
 ATCCAGGTGAAGGACCTCTCAGCAGATTCGGGTGCTTCTGATGGAAGTGGAGGAGGCAAGGGGGAATC  
 ACGTCATTAGGGACGAGGAGGTGAGCTCCGCCGACATCAGTCTTCAAGCGAAGTTATTAGCCAACACTT  
 GGTATCCTACAGGAATATTGAGGAGTTGCAACAGCAGAACCAGAGGCTGCTGGTGGCTCTTCGCGAACTG  
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 AGTCCGCCCTCACCGAGCTTGGCAGCTGCGGAAGTCAAGACAGCACCAGATGCAGCTTGTGACTCCAT  
 CGTCCGGCAAAGGGACATGTACCGCATCTGCTGAGTCAGACCACAGGGGTAGCTATCCCCCTGCATGCC  
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CGTCTAACAAAGTACCGGAGCAGCAGAGGCAGATAACCCCTGAAGACCACCCCGGCATCCGGGGAGCGGGG  
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CAACGGTCACTAACCCCAACAACACCACCGCCACCCTAATGCCAACCCCAAGTGGAAATCACAGGA  
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GCCACACCTAGTCTTCTTTGCCTAAGCGGACCAGAGAAGAGGAGGAGGACAGTACTATAGAAGCTTCTG  
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ACGAAACCCATTGTTTCTGGCTCACGAAGAGGAGCGGAGGCAGAAGCGTGCCCACTACACCTTTGCA  
GGTGGCCGCCCGTCACTGTCTTCACTGAAAGCACCACTCTGACGCTAGCGAACACGCTTCCCAAAGT  
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TCCTCAGTAGATACATCATCCAGCCAGCCAAGCCGTTTCAAGAGAGTGCGGCTCCAGACCACACTTCGGC  
AAGGCGTGAGGGGCGGCAGTTCAACCGACAGCGAGGTGTTTCTCATGCCATGGGCGGGAGAGGGAAT  
TAACAGGGGAAATATCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC214233 representing NM\_003292  
 Red=Cloning site Green=Tags(s)

MAAVLQQVLERTELNKLPKSVQNKLEKFLADQQSEIDGLKGRHEKFKVESEQQYFEIEKRLSHSQERLVN  
 ETRECQSLRLELEKLNQKALTEKNKELEIAQDRNIAIQSQFTRTKEELEAEKRDLIRTNERLSQLELEY  
 LTEDVKRLNEKLEKESNTTKGELQLKLDLQASDVSVKYREKRLEQEKELLSQNTWLNTELKTKTDELLA  
 LGREKGNIELELKCENLKKEEVSRLEEQMNGLKTSNEHLQKHVEDLLTKLKEAKEQQASMEEKFHNELN  
 AHIKLSNLYKSAADDSEAKSNELTRAVEELHKLLKEAGEANKAIQDHLLLEVEQSKDQMEKEMLEKIGRLE  
 KELENANDLLSATKRKGAILSEEELAAMSPTAAAVAKIVKPGMKLTEL YNAYVETQDQLLEKLENKRIN  
 KYLDEIVKEVEAKAPILKRQREEYERAQKAVASLSVKLEQAMKEIQRLQEDTDKANKQSSVLERDNRME  
 IQVKDLSQQIRVLLMELEEARGNHVIRDEEVSSADISSSSEVISQHLVSYRNIEELQQQNQRLLVALREL  
 GETREEREQETTSSKITEQLKLESALTELEQLRKSQRQHQMLVDSIVRQRDMYRILLSQTTGVAIPLHA  
 SSLDDVSLASTPKRPSTQTVSTPAPVPVIESTEAEAKAALKQLQEIFENYKKEKAENEKIQNEQLEKL  
 QEQVTDLRSQNTKISTQLDFASKRYEMLQDNVEGYRREITSLHERNQKL TATTQKQEIQINTMTQDLRGA  
 NEKLAVAEVRAENLKKKEMLKLSEVRLSQQRESLLAEQRGQNLLL TNLQTIQGILERSETETKQRLSSQ  
 IEKLEHEISHLKKKLENEVEQRHTLTRNLDVQLDTRKQLDTE TNLHLNTKELLKNAQKEIATLKQHL SN  
 MEVQVASQSSQRTGKGQPSNKEDVDDLVSQLRQTEEQVNDLKERLKTSTSNVEQYQAMVTSLEESLNKEK  
 QVTEEVKRNIIEVRLKESAEFQTQLEKKLMEVEKEKQELQDDKRAIESMEQQLSELKKTLSVQNEVQEA  
 LQRASTALSNEQQARRDCQEQAIAVEAQNKYERELMLHAADVEALQAAKEQVSKMASVRQHLEETTQKA  
 ESQLECKASWEERERMLKDEVSKVCRCEDLEKQNRLLHDQIEKLSDKVVASVKEGVQGPLNVSLSEEG  
 KSQEQILEILRFIRREKIEAETRFEVAQVESLRYRQVELLERELQELQDSLNAEREKVQVTAKTMAQHE  
 ELMKKTETMNVVMETNKMLREEKERLEQDLQMQAKVRKLELDILPLQEAANAELSEKSGMLQAEKLLLE  
 DVKRWKARNQHLVSQQKDPDTEEYRKLSEKEVHTKRIQQLTEEIGRLKAEIARSNASLTNNQNL IQSLK  
 EDLNKVRTEKETIQKDLDAKIIDIQEKVKITITQVKKIGRRYKTYEELKAQQDKVMETSAQSSGDHQEQH  
 VSVQEMQELKETLNQAEKSKSLESQVENLQKTLSEKETEARNLQEQTVQLQSEL SRLRQDLQDRTTQEE  
 QLRQQITEKEEKTRKAIVAASKIAHLAGVKDQLTKENEELKQRNGALDQKDEL DVRITALKSQYEGRI  
 SRLERELREHQRHLQRDEPQEPSNKVPEQQRQITLKTTPASGERGIAS TSDPPTANIKPTPVVSTPSK  
 VTAAMAGNKSTPRASIRPMVTPATVTNPTTPTATVMP TTQVESQEQAMQSEGPVEHVPVFGSTSGSVRS  
 TSPNVQPSISQPILTVQQQTQATAFVQPTQQSHQIEPANQELSSNIVEVVQSSPVERPSTSTAVFGTVS  
 ATPSSSLPKRTREEEEDSTIEASDQVSDDTVEMPLPKKLSVTPVGT EEEVMAEESTDGEVETQVYNQDS  
 QDSIGEGVTQGDYTPMEDSEETSQSLQIDLGPLQSDQTTTSSQDGGGKDDVIVIDSDDEEEDDDENDG  
 EHEDYEEDEEDDDDEDGMDGDEGDSNEGTSADGNDGYEADDAEGGDGDPGTETEE SMGGGEGNHR  
 AADSQNSGEGNTGAAESSFSQEVSRQQPSSASERQAPRAPQSPRRPPHPLPRLTIHAPPQELGPPVQR  
 IQMTRRQSVGRGLQLTPGIGGMQQHFFDDEDRTVPSTPTLVVPHRTDGF AEAIHSPQVAGVPRFRFGPPE  
 DMPQTSSSHSDLGQLASQGGGLMYETPLFLAHEEESSGRSVPTPLQVAAPVTVFTESTTSDASEHASQS  
 VPMVTTSTGTLSTTNETATGDDGDEVFVEAESEGISSEAGLEIDSQEEEEPVQASDES DLPSTSQDPPSS  
 SSVDTSSSQPKPFRVRQLQTTLRQGVGRQFNRQRGVSHAMGGRGGINRGNIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_003292

**ORF Size:** 7089 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\\_003292.2](#), [NP\\_003283.2](#)

**RefSeq Size:** 9636 bp

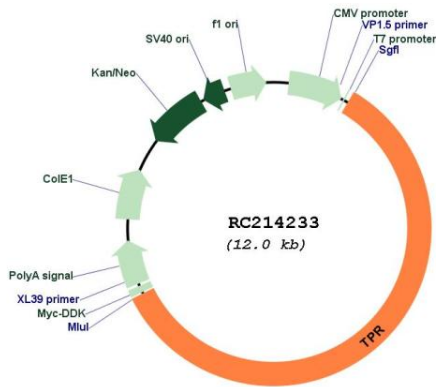
**RefSeq ORF:** 7092 bp

**Locus ID:** 7175

**UniProt ID:** [P12270](#)

<b>Cytogenetics:</b>	1q31.1
<b>Domains:</b>	M, Pox_A_type_inc
<b>Protein Pathways:</b>	Pathways in cancer, Thyroid cancer
<b>MW:</b>	267.3 kDa
<b>Gene Summary:</b>	This gene encodes a large coiled-coil protein that forms intranuclear filaments attached to the inner surface of nuclear pore complexes (NPCs). The protein directly interacts with several components of the NPC. It is required for the nuclear export of mRNAs and some proteins. Oncogenic fusions of the 5' end of this gene with several different kinase genes occur in some neoplasias. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC214233