

Product datasheet for **MR215425**

Tpo (NM_009417) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpo (NM_009417) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR215425 representing NM_009417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAACACTTGGAGCTATGGCAATAATGCTGGTGGTTATGGAACTGTAAATTTCTCTCTTTTATCC
 TGAGAAGCAGAGACATCTTGTGGGAAGACCATGAAAGTCCCATTGTTATCAGTGCCTGGAAACGAGCCA
 GCTCATGGTGGACCATGCAGTCTACAACACCATGAAAAGAAACCTCAAGAAAAGGGAAGTCTTTCTCCA
 GCCCAGCTTCTCTTTCTTTAAGCTGCCCGAGTCCACCAGTGGGGCTATTTCCCGAGCAGCAGAGATTA
 TGGAAACATCAATAACAAGTCATGAAACGTGAACAGTCAAGTTCTCCACGGATGCCTTATCAGCAGACAT
 TCTGGGCACAATTGCCAACCTGTCAGGATGCTTGCCTTTCATGCTGCCACCAAGATGCTCTGACACCTGC
 CTGGCAAATAAGTACCGGCCATCACAGGGCGTGAACAATAGAGATCACCCAGATGGGGAGCCTCCA
 ACACAGCCCTAGCAAGATGGCTGCCTCCTGTCTATGAAGATGGCTTCAGTCAGCCAAAGGCTGGAACCC
 TAATTTCTTATACCACGGCTTCCACTGCCCCCGTACGGGAAGTGACAAGGCACCTCATTCAAGTTTCC
 AATGAGGCTGTGACCGAAGATGACCAGTACTCTGATTTTCTGCCGGTGTGGGGACAGTACATCGATCATG
 ACATTGCTCTCACACCACAGAGCACTAGCACAGCAGCCTTCTGGGGAGGTGTCGACTGCCAGCTGACCTG
 TGAGAACCAAATCCTTGCTTCCCATAACAGTTCCTCAAACCTCCTCAGGGACCACTGCATGCCTGCCT
 TTCTACCGCTCCTCCGCCGCTTGTGGCACTGGGGACCAAGGTGCTCTCTTTGGCAACCTGTCTGCAGCCA
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 GCTGGCCGTGCCTACCTGCCCTTCGCAACAGCCGCTGCGCTCCAGAGCCTGGTACCCACGCACCAACC
 GCACGCCCTGCTTCTGGCTGGAGACGGTCCGCCAGTGAAGTCCCTGCCCTGGCAGCGGTACACACCTT
 GTGGCTGCGCGAGCACAACCGCCTGGCTTCGGCCTTCAAGGCCATTAACAAGCACTGGAGCGCAACACT
 GCCTACCAGGAGCGCGCAAGGTGGTAGGGCACTGCACCAGATCATCACCATGAGGGATTATATCCCCA
 AAATCCTGGGCTCTGATGCCTTCAAGCAGTATGTGGGCCCTATGAAGGCTACAACCCCACTGTGAACCC
 TACTGTGTCCAACATCTTCTCCACTGCTGCCTTTCGCTTGGCCATGCCACAGTCCACTCCACTGGTGA
 CGGCTAAACACTGACTTCCAGGAGCACACAGAGCTCCCCAGGTTGCAGCTGCGTGTGTCTTCTTCCAGAC
 CCTGGAGGCTTATCCAGGAAGGTGGTTTGGATCCGATAGTGAGAGGCTCCTGGCAGAGCAGCCAAGCT
 GCAAGTCAAGGGCAGCTGATGAATGAGGAGCTGACCGAGAGGCTCTTCTGTGTCTAAGCTGGGCACC
 TTGGATCTGGCATCACTGAACCTGCAGAGGGCCGGGATCATGGCTTACCAGACTACAATGAATGGAGAG
 AGTTCTGTGGCTGTACGCCTGGAGACACCAGCTGAGCTGAACAAGGCCATTGCCAACAGAAGCATGGT
 CAACAAGATAATGGACTTATACAAGCATGCTGACAACATTGACGCTCTGGTTGGGAGGCTTGGCTGAAAAG
 TTCTTGCCGGGGCCCGCACTGGTCTCTGTTGCATGTATCATTGGGAAGCAGATGAAGGCTCTGAGGG
 ATGGGGACAGGTTTTGGTGGGAGAACCAATGTCTTACAGACGCTCAGAGGCAGGAAGTAGAAAAGCA
 TTCCTACCTCGGGTCACTGTGACAACACTGGACTCACAGAGTACCTGTGGATGCCTCCGTATTGGA
 AAGTTCACCAAGACTTTGAATCCTGTGAGGACATCCCGAGCATGGACCTGAACTATGGAGGGAGACCT
 TCCCAAGATGACAAGTGTGTCTTCCAGAGGAGGTGGACAATGGAACTTTGTGCACTGTGAAGAGTC
 TGGGAAGCTGGTGTGTATACTCCTGTTTCCATGGATACAAGCTGCAGGGCCAGGAGCAGGTACATGT
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 TGTGCTAGGTGAGGATGAGAAGACCTGCATAGATTCTGGCAGGCTACCTCGGGCATCCTGGGTCTCCATT
 GCACTGGGTGCACTTCTCATTGGTGGTTTGGCCAGTCTCACCTGGATAGTAATTTGCAGGTGGACACATG
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 GAGGGGGATTTACCACACAAGGCCGAGCTCAAGACTGGACAGGAACCTGCAAGTGGATCCAGGGTC
 CTCCTGTGCGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR215425 representing NM_009417
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MRTLGAMAIMLVVMGTVIFLSFILRSRDILCGKTMKSHVISAVETSQMLVDHAVYNTMKRNKKREVLSP
 AQLLSFFKLPSTSGAISRAAEIMETSIQVMKREQSQFSTDALSADILGTIANLSGLPFMLPPRCPDTC
 LANKYRPITGACNNRDHPRWASNTALARWLPVYEDGF SQPKGWNPNFLYHGFP LPPVREVTRHLIQVS
 NEAVTEDDQYSDFLPVWGQYIDHDIALTPQSTSTAAFVGGVDCQLTCENQNPCFPIQLPSNSSGTTACLP
 FYRSSAACGTGDQGLFGNLSAANPRQQMNGLTSFLDASTVYGGSSPGVEKQLRNWSSSAGLLRVNTLHLD
 AGRAYLPFATAACAPEPGTPRTNRTPCFLAGDGRASEVPALAAVHTLWLREHNRLASAFKAINKHSANT
 AYQEARKVVGALHQIITMRDYIPKILGPD AFRQYVGPYEGYNPTVNPTVSNIFSTAAFRFGHATVHPLVR
 RLNTDFQEHTELPRLQLRDVFRPWRLIQEGGLDPIVRGLLARA AKLQVQGLMNEELTERL FVLSNVGT
 LDLASLNLQRGRDHGLPDYNEWREFCGLSRL ETPAELNKAIANRSMVNKIMDLYKHADNIDVWLGGLAEK
 FLPGARTGPLFACIIGKQMKALRDGRF WENTNVFTDAQRQELEKHS LPRVICDNTGLTRVPVDAFRIG
 KFPQDFESCEDI PSMDLELWRETFPQDDKCVFP EEVDNGNFVHCEESGKLVLVYSCFHGYKLGQGEQVTC
 TQKGWDEPPVCKDVNECADLTHPPCHPSAQCKNTKGSFQCVCTDPYVLGEDEKTCIDSGRLPRASWVSI
 ALGALLIGGLASLTWIVICRWTHADKKATLPITERVTTQSGCRKSQGRGISPHKAAAQDTGQEPASGSRV
 LLCE

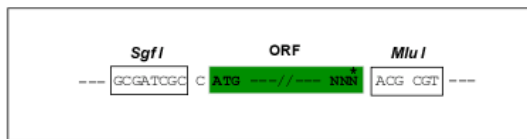
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

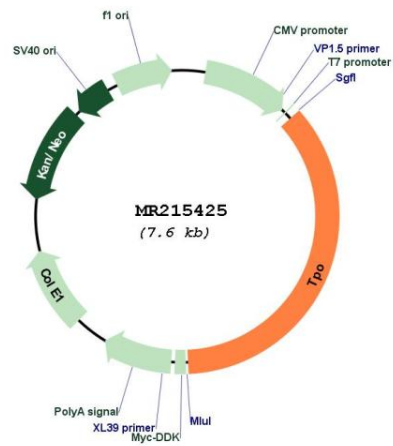


* The last codon before the Stop codon of the ORF

ACCN: NM_009417

ORF Size:	2742 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:	<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:	NM_009417.3 , NP_033443.1
RefSeq Size:	3291 bp
RefSeq ORF:	2745 bp
Locus ID:	22018
UniProt ID:	P35419
Cytogenetics:	12 13.0 cM
MW:	101.8 kDa
Gene Summary:	This gene encodes a membrane-bound glycoprotein. The encoded enzyme plays a central role in thyroid gland function. The enzyme functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mice with homozygous missense mutations in this gene exhibit hypothyroid dwarfism and hearing impairment. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR215425