

Product datasheet for MR205837

Tpst2 (NM_009419) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tpst2 (NM_009419) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tpst2
Synonyms:	AI448750; D5Ucla3; grm; grt; Tango13b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205837 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCTGTCGGTGCCTAAGGTGCTGCTGGCCCGCGCTGTGCTCTGGCCCTGGTCTCGCTGTGCAGC
TTGGGCAGCAAGTACTGGAGTGCCGGGCGGTGCTCGGGGCACACGGAACCCACGGAGGATGCGGCCGA
GCAGGAGAACTGGTGTGCTCGCGCCGACCAGTGGAGTACCGCTATGGCAAGGCATGCCACTCATC
TTTGTGGGCGCGTGCCACGCAGTGGCACCACGCTCATGCGGCCATGTTGGACGCACACCCGGAGGTGC
GCTGTGGGAGGAGACGCGCATCATCCCTCGTGTGCTGGCCATGCGGCAGGCCTGGACCAAGTCTGGCCG
TGAGAAGCTGCGGCTGGACGAGGCAGGTGTGACGGATGAGGTGCTGGACGCGGCCATGCAGGCCTTCATT
CTGGAGGTGATCGCCAAGCACGGCGAACCAAGCCCGCGTGTGTGTAACAAGGACCCCTTCACACTCAAGT
CATCCGCTACCTGGCACGCCTGTTCCCAACTCCAAATTCCTGCTAATGGTGCCTGACGGCCGGGCGTC
CGTGCCTCCATGATCACGCGCAAGGTCAACATCGCGGGCTTTGACCTCAGCAGCTACCGAGACTGCCTC
ACCAAGTGAACAAGGCCATCGAGGTGATGTACGCACAGTGCATGGAGGTGGCAGGGACAAGTGCCTGC
CCGTGACTATGAGCAGTTGGTGTGCACCCCGCGCTCACTCAAACGCATCCTGGATTTCCTGGGCAT
CGCCTGGAGTGACACAGTCCCTGCACCATGAGGACCTCATTGGCAAGCCTGGGGCGTCTCCTTGCCAAG
ATCGAGCGGTCCACGGACCAGGTCAAAACCGGTGAACCTGGAAGCTCTCTCAAGTGGACGGGCCACA
TCCCTAGAGACGTGGTGAGGGATATGGCCAGATTGCCCCATGCTGGCCCGGCTTGCTATGACCCGTA
TGCGAATCCGCCAACTATGGGAACCCGACCCATTGTATCAACAACACACCCGGTCTTGAAGGA
GACTATAAAACGCCAGCCAATCTGAAAGGATATTTTCAGGTGAACCAGAACAGCACCTCCACACCTAG
GAAGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205837 protein sequence
Red=Cloning site Green=Tags(s)

MRLSVRKVLLAAGCALALVLAVQLGQQVLECRVLLGGTRNPRMRPEQEELVMLGADHVEYRYGKAMPLI
 FVGGVPRSGTTLMRAMLDAHPEVRCGEETRIIPRVLAMRQAWTKSGREKLRLEAGVTDEVLDAAMQAFI
 LEVIAKHGEPARVLCNKDPFTLKSSVYLARLFPNSKFLLMVRDGRASVHSMITRKVTIAGFDLSSYRDCL
 TKWNKAIEVMYAQCMEVGRDKCLPVYYEQLVLHPRRSLKRILDFLGLIAWSDTVLLHHEDLIGKPGGVSLK
 IERSTDQVIKPVNLEALSKWTGHIPRDVVRDMAQIAPMLARLGYDPYANPPNYGNPDPDIVINNTHRVLKG
 DYKTPANLKG YFQVNQNSTSPHLGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009419

ORF Size: 1131 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_009419.2](#), [NP_033445.1](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1173 bp

Locus ID: 22022

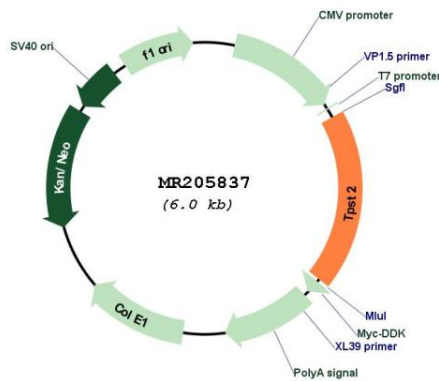
UniProt ID: [O88856](#)

Cytogenetics: 5 54.65 cM

MW: 42.1 kDa

Gene Summary: Catalyzes the O-sulfation of tyrosine residues within acidic motifs of polypeptides, using 3'-phosphoadenylyl sulfate (PAPS) as cosubstrate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205837