

Product datasheet for MR201408

Tspo (NM_009775) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tspo (NM_009775) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tspo
Synonyms: Bzrp; IBP; PBR; Tspo1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201408 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGAATCCTGGGTGCCTGCCGTGGCCCTCACTCTGGTGCCAGCCTGGGGGCTTCATGGGAGCCT
ACTTTGTACGTGGCGAGGGCCTCCGGTGGTATGCTGGCTGCAGAAACCCTTTGGCATCCGCCTCGCTG
GACTGGCTCCCATCTGGGGCACACTGTATTCAGCCATGGGGTATGGCTCCTACATAGTCTGAAAGAG
CTGGGAGGTTTACAGAGGACGCTATGGTTCCTTGGGTCTCACTGGTCAGCTGGCTCTGAAGTGG
CGTGGCCCCCATCTTTGGTGCCCGCAGATGGGCTGGCCCTGGCCGATCTTCTGCTGTGCTAGTGG
GGTGGCGACTGCCACAACCCTGGCTTGGCACCGAGTGAGCCCGCCGGCTGCCCGCTTGTGTACCCTTAC
CTGGCCTGGCTGGCTTTTGCCACCGTGCTCAACTACTATGTATGGCGTGATAACTCTGGCCGCGAGGGG
GCTCCCGGCTCGCAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201408 protein sequence
 Red=Cloning site Green=Tags(s)

MPESWVPAVGLTLVPSLGGFMGAYFVRGEGLRWYAGLQKPSWHPRWLAPIWGTLYSAMGYGSYIVWKE
LGGFTEDAMVPLGLYTQQLALNWAWPPIFFGARQMGWALADLLLVSQVATATTLAWHRVSPPARLLYPY
LAWLAFATVLNYYVWRDNSGRRGGSRLAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_009775

ORF Size: 510 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

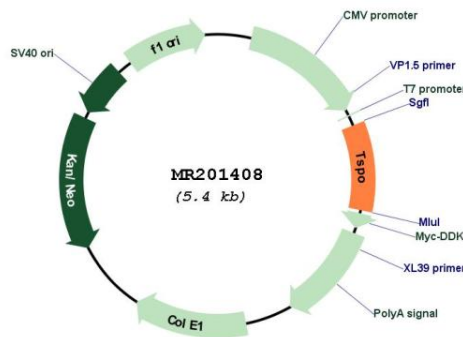
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_009775.1](#), [NM_009775.2](#), [NM_009775.3](#), [NM_009775.4](#), [NP_033905.2](#)

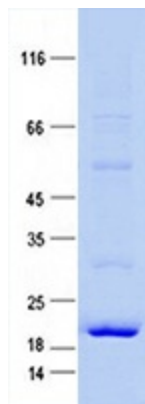
RefSeq Size: 871 bp
RefSeq ORF: 510 bp
Locus ID: 12257
UniProt ID: [P50637](#)
Cytogenetics: 15 39.4 cM
MW: 18.8 kDa

Gene Summary: Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme (By similarity). Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides. Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism (PubMed:9832438, PubMed:24814875), but its precise physiological role is controversial. According to some reports, it is not required for steroid hormone biosynthesis (PubMed:24174323, PubMed:24936060).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201408



Coomassie blue staining of purified Tspo protein (Cat# [TP501408]). The protein was produced from HEK293T cells transfected with Tspo cDNA clone (Cat# MR201408) using MegaTran 2.0 (Cat# [TT210002]).