

Product datasheet for RC229654

TSPAN3 (NM_001168412) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSPAN3 (NM_001168412) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TSPAN3
Synonyms: TM4-A; TM4SF8; TSPAN-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC229654 representing NM_001168412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCAGTGCGGCATCACCTCCTCCAAGACCGTGTGGTCTTTCTCAACCTCATCTTCTGGTTTGCA
 TCATCCTGCTCTGGTTTTGTACAGAAAGTTGTTGTAGTGGTTTTGGGATATGTTTACAGAGCAAAGGT
 GGAAAATGAGGTTGATCGCAGCATTAGAAAGTATAAGACCTACAATGGAACCAACCCTGATGCTGCT
 AGCCGGGCTATTGATTATGTACAGAGACAGCTGCATTGTTGTGGAATTCACAACACTCAGACTGGGAAA
 ATACAGATTGGTTCAAAGAAACCAAAAACAGAGTGTCCCTCTTAGCTGCTGCAGAGAGACTGCCAGCAA
 TTGTAATGGCAGCCTGGCCACCCTCCGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTAGTGAAGAAG
 CTACAAGAAATCATGATGCATGTGATCTGGGCCCACTGGCATTGTCAGCTATTAGCTGCTGGGCATGC
 TGTGTGCTTGATCGTGTGTGCAGAAGGAGTAGAGATCTGCTTACGAGCTCCTCATCACTGGCGGAAC
 CTATGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229654 representing NM_001168412
 Red=Cloning site Green=Tags(s)

MGQCGITSSKTVLVFLNLIWFVVIILLVVFTEVVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDA
 SRAIDYVQRQLHCCGIHNYSDWENTDFWKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKK
 LQEIMMHVIWAALAFAAIQLLGMLCACIVLCRRSRDPAYELLITGGTYA

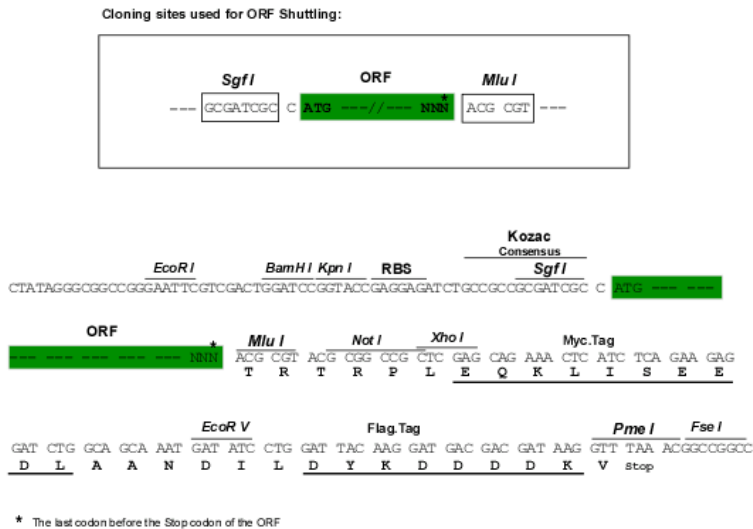
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/ja1433_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001168412

ORF Size: 567 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_001168412.2](#)

RefSeq ORF: 570 bp

Locus ID: 10099

UniProt ID: [O60637](#)

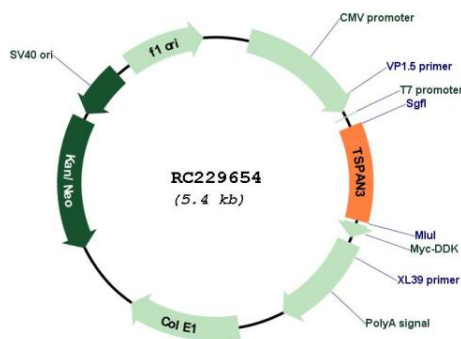
Cytogenetics: 15q24.3

Protein Families: Transmembrane

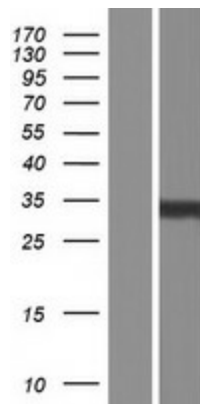
MW: 21.6 kDa

Gene Summary: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The use of alternate polyadenylation sites has been found for this gene. Multiple alternative transcripts encoding different isoforms have been described. [provided by RefSeq, Dec 2009]

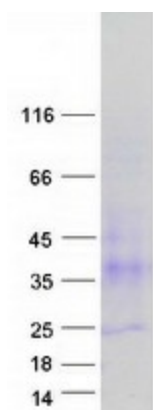
Product images:



Circular map for RC229654



Western blot validation of overexpression lysate (Cat# [LY432654]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229654 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TSPAN3 protein (Cat# [TP329654]). The protein was produced from HEK293T cells transfected with TSPAN3 cDNA clone (Cat# RC229654) using MegaTran 2.0 (Cat# [TT210002]).