

Product datasheet for **RC210590**

TSPAN4 (NM_001025234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSPAN4 (NM_001025234) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TSPAN4
Synonyms: NAG-2; NAG2; TETRASPAN; TM4SF7; TSPAN-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210590 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCCTGCCTCCAGGCCGTC AAGTACCTCATGTTGCGCTTCAACCTGCTCTTCTGGCTGGGAG
GCTGTGGCGTGTGGGTGTGGCATCTGGCTGGCCGACACAGGGGAGCTTCGCCACGCTGTCTCTTC
CTTCCCGTCCCTGTGGCTGCCAACCTGCTCATCATCACCGGCCCTTTGTCATGGCCATCGCTTCGTG
GGCTGCCTGGGTGCCATCAAGGAGAACAAGTGCCTCCTGCTCACTTTCTCCTGCTGCTGCTGGTGT
TCCTGCTGGAGGCCACCATCGCCATCTTCTTTCGCTACACGGACAAGATTGACAGGTATGCCAGCA
AGACCTGAAGAAAGGCTTGCACCTGTACGGCAGCAGGGCAACGTGGGCCTCACCAACGCCTGGAGCATC
ATCCAGACCGACTTCCGCTGCTGTGGCGTCTCCAACACTACTGACTGGTTCGAGGTGTACAACGCCACGC
GGGTACCTGACTCCTGCTGCTTGGAGTTCAGTGAGAGCTGTGGGCTGCACGCCCCCGGCACCTGGTGGAA
GGCGCCGTGCTACGAGACGGTGAAGGTGTGGCTCAGGAGAACCTGCTGGCTGTGGGCATCTTTGGGCTG
TGCACGGCGTGGTGCAGATCCTGGGCCTGACCTCGCCATGACCATGTACTGCCAAGTGGTCAAGGCAG
ACACCTACTGCGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210590 protein sequence
 Red=Cloning site Green=Tags(s)

MARACLQAVKYLMFANLLFWLGGCGVLGVGIWLAATQGSFATLSSSFPSLSAANLLIITGAFVMAIGFV
 GCLGAIKENKCLLLTFFLLLLLVFLLEATIAILFFAYTDKIDRYAQDLKKGLHLYGTQGNVGLTNAWSI
 IQTDFRCCGVSNYTDWFEVYNATRVDPSCCLEFSESCGLHAPGTWWKAPCYETVKVWLQENLLAVGIFGL
 CTALVQILGLTFAMTMYCQVVKADTYCA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6707_a10.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_001025234

ORF Size: 714 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_001025234.1](#), [NP_001020405.1](#)

RefSeq Size: 1443 bp

RefSeq ORF: 717 bp

Locus ID: 7106

UniProt ID: [O14817](#)

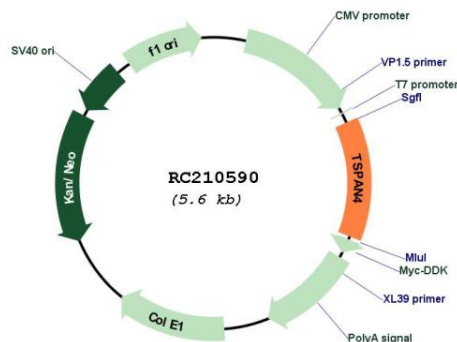
Cytogenetics: 11p15.5

Protein Families: Transmembrane

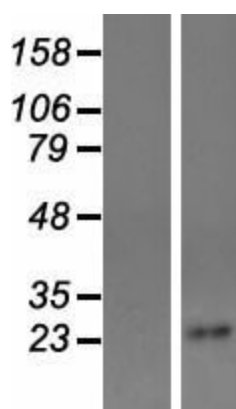
MW: 26.1 kDa

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. This encoded protein is a cell surface glycoprotein and is similar in sequence to its family member CD53 antigen. It is known to complex with integrins and other transmembrane 4 superfamily proteins. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210590



Western blot validation of overexpression lysate (Cat# [LY422491]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220485] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).