

Product datasheet for **RG210590**

TSPAN4 (NM_001025234) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TSPAN4 (NM_001025234) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TSPAN4
Synonyms: NAG-2; NAG2; TETRASPAN; TM4SF7; TSPAN-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210590 representing NM_001025234
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCCTGCCTCCAGGCCGTCAAGTACCTCATGTTGCGCTTCAACCTGCTCTTCTGGCTGGGAG
GCTGTGGCGTGTGGGTGTGGCATCTGGCTGGCCGCCACACAGGGGAGCTTCGCCACGCTGTCTCTTC
CTTCCCGTCCCTGTCGGCTGCCAACCTGCTCATCATCACCGCGCCTTTGTCATGGCCATCGCTTCGTG
GGCTGCCTGGGTGCCATCAAGGAGAACAAGTGCCTCCTGCTCACTTTCTCCTGCTGCTGCTGCTGGTGT
TCCTGCTGGAGGCCACCATCGCCATCCTCTTCTCGCCTACACGGACAAGATTGACAGGTATGCCAGCA
AGACCTGAAGAAAGGCTTGCACCTGTACGGCACGAGGGCAACGTGGGCCTCACCAACGCCTGGAGCATC
ATCCAGACCGACTTCCGCTGCTGTGGCGTCTCCAACACTACTGACTGGTTCGAGGTGTACAACGCCACGC
GGGTACCTGACTCCTGCTGCTTGGAGTTCAGTGAGAGCTGTGGGCTGCACGCCCCCGGCACCTGGTGGAA
GGCGCCGTGCTACGAGACGGTGAAGGTGTGGCTCAGGAGAACCTGCTGGCTGTGGGCATCTTTGGGCTG
TGCACGGCGTGGTGCAGATCCTGGCCTGACCTTCGCCATGACCATGTACTGCCAAGTGGTCAAGGCAG
ACACCTACTGCGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210590 representing NM_001025234
 Red=Cloning site Green=Tags(s)

MARACLQAVKYLMFANLLFWLGGCGVLGVGIWLAATQGSFATLSSSFPSLSAANLLIITGAFVMAIGFV
 GCLGAIKENKCLLLTFFLLLLLVFLLEATIAILFFAYTDKIDRYAQDLKKGLHLYGTQGNVGLTNAWSI
 IQTDFRCCGVSNYTDWFEVYNATRVDPSCCLEFSESCGLHAPGTWWKAPCYETVKVWLQENLLAVGIFGL
 CTALVQILGLTFAMTMYCQVVKADTYCA

TRTRPLE - GFP Tag - V

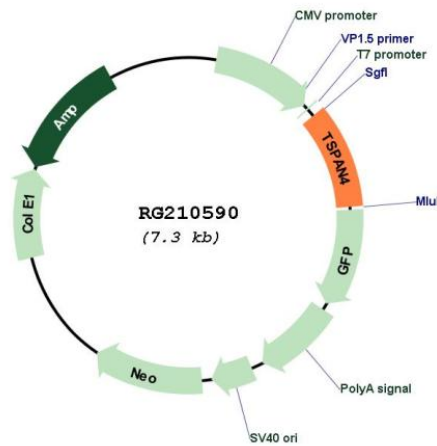
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<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_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
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]