

## Product datasheet for **RG201771**

### **TSPAN4 (NM\_003271) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSPAN4 (NM\_003271) 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:** >RG201771 representing NM\_003271  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCGCCTGCCTCCAGGCCGTCAAGTACCTCATGTTGCGCTTCAACCTGCTCTTCTGGCTGGGAG  
 GCTGTGGCGTGTGGGTGTGGCATCTGGCTGGCCGCCACACAGGGGAGCTTCGCCACGCTGTCTCTTC  
 CTTCCCGTCCCTGTCGGCTGCCAACCTGCTCATCATCACCGCGCCTTTGTCATGGCCATCGCTTCGTG  
 GGCTGCCTGGGTGCCATCAAGGAGAACAAGTGCCTCCTGCTCACTTTCTCCTGCTGCTGCTGCTGGTGT  
 TCCTGCTGGAGGCCACCATCGCCATCCTCTTTCGCCTACACGGACAAGATTGACAGGTATGCCAGCA  
 AGACCTGAAGAAAGGCTTGCACCTGTACGGCACGAGGGCAACGTGGGCCTCACCAACGCCTGGAGCATC  
 ATCCAGACCGACTTCCGCTGCTGTGGCGTCTCCAACACTACTGACTGGTTCGAGGTGTACAACGCCACGC  
 GGGTACCTGACTCCTGCTGCTTGGAGTTCAGTGAGAGCTGTGGGCTGCACGCCCCCGGCACCTGGTGGAA  
 GGCGCCGTGCTACGAGACGGTGAAGGTGTGGCTCAGGAGAACCTGCTGGCTGTGGGCATCTTTGGGCTG  
 TGCACGGCGTGGTGCAGATCCTGGGCCTGACCTTCGCCATGACCATGTACTGCCAAGTGGTCAAGGCAG  
 ACACCTACTGCGCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201771 representing NM\_003271  
 Red=Cloning site Green=Tags(s)

MARACLQAVKYLMFANLLFWLGGCGVLGVGIWLAATQGSFATLSSSFPSLSAANLLIITGAFVMAIGFV  
 GCLGAIKENKCLLLTFFLLLLLVFLLEATIAILFFAYTDKIDRYAQDLKKGLHL YGTQGNVGLTNAWSI  
 IQTDFRCCGVSNYTDWFEVYNATRVDPSCCLEFSESCGLHAPGTWWKAPCYETVKVWLQENLLAVGIFGL  
 CTALVQILGLTFAMTYCQVVKADTYCA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003271

**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\\_003271.3](#)

**RefSeq Size:** 1429 bp

**RefSeq ORF:** 717 bp

**Locus ID:** 7106

**UniProt ID:** [O14817](#)

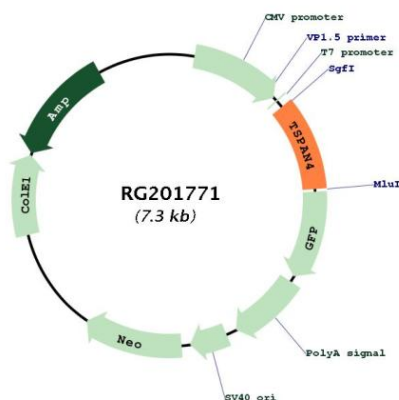
**Cytogenetics:** 11p15.5

**Domains:** transmembrane4

**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]

## Product images:



Circular map for RG201771