

## Product datasheet for **RG202123**

### TSPAN5 (NM\_005723) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSPAN5 (NM_005723) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSPAN5
Synonyms:	NET-4; NET4; TM4SF9; TSPAN-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202123 representing NM_005723 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCCGGGAAGCACTACAAGGGTCTGAAGTCAGTTGTTGCATCAAATACTTCATATTTGGCTTCAATG  
TCATATTTGGTTTTGGGAATAACATTTCTTGAATTGGACTGTGGGCATGGAATGAAAAAGGAGTTCT  
GTCCAACATCTCTCCATCACCGATCTCGGCGGCTTTGACCCAGTTTGGCTTTCCTTGTGGTGGGAGGA  
GTGATGTTCAATTTGGGATTTGCAGGGTGCATTGGAGCGCTACGGGAAAACACTTTCCTTCTCAAGTTTT  
TTTCTGTGTTCTGGGAATTATTTCTTCTGGAGCTCACTGCCGGAGTTCTAGCATTTGTTTTCAAAGA  
CTGGATCAAAGACCAGCTGTATTTCTTTATAAACAACAACATCAGAGCATATCGGGATGACATTGATTTG  
CAAACCTCATAGACTTCACCCAGGAATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACC  
TAAATATTTACTTCAATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTG  
CACTAAAGATCCCGCAGAAGATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAGTT  
GACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCAGTTTGAGAAGTGTTGCAGGACAATTTAA  
CCATCGTTGCTGGTATTTTCATAGGCATTGCATTGCTGCAGATATTTGGGATATGCTGGCCAGAATTT  
GGTTAGCGATATCGAAGCTGTCAGGGCGAGCTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202123 representing NM\_005723  
 Red=Cloning site Green=Tags(s)

MSGKHKYGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGLVSNISSITDLGGFDPVWFLVVG  
 VMFILGFAGCIGALRENTFLLKFFSVFLGIFFLELTAGVLAFFVKDWIKDQLYFFINNNIRAYRDDIDL  
 QNLIDFTQEYWQCCGAFGADDWNLNIYFNCTDSNASRERCVPFSCCTKDPADVINTQCGYDARQKPEV  
 DQQIVIYTKGCVPOFEKWLQDNL TIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_005723

**ORF Size:** 804 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\\_005723.4](#)

**RefSeq Size:** 1433 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 10098

**UniProt ID:** [P62079](#)

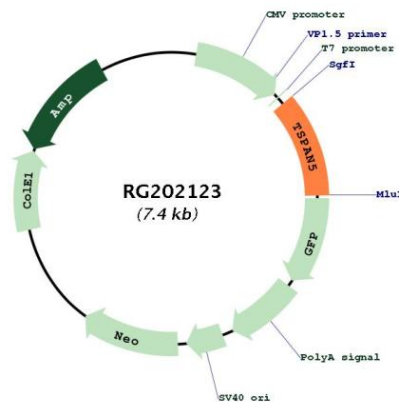
**Cytogenetics:** 4q23

**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. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG202123