

Product datasheet for **RG223902**

SPANX N2 (SPANXN2) (NM_001009615) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: SPANX N2

Synonyms: CT11.7; SPANX-N2

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223902 ORF sequence, **codon optimized**.
Due to the complexity of NM_001009615, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACAGCCAACAAGCAGCACCAACGGAGAGAAGCGGAAAAGTCCCTGCGAGAGTAATAATAAGAAAA
ATGACGAAATGCAAGAGGCTCCAAACAGAGTCCTTGCTCCAAAGCAGTCTCTCCAGAAGACGAAGACCAT
TGAATATCTCACAATTATCGTTTACTATTATCGCAAACATACGAAAATCAACTCAAACCAAGTGGAGAAG
GATCAGAGCAGGGAGAAGTCCATCAATCCAGTTCAGGAGGAAGAAGACGAAGGCCTTGACTCTGCCGAAG
GGAGCTCTCAAGAAGACGAGGACCTGGACTCTAGCGAAGGCAGCAGCCAGGAGGACGAGGATCTCGATAG
TTCTGAGGGGTCTAGTCAAGAAGATGAAGATCTCGACTCAAGTGAAGGGTCTTCACAGGAAGACGAAGAC
CTCGATTCCAGCGAAGGCTCATCCCAAGAAGACGAAGACCTTGATCCCCCGAAGGATCTTCTCAGGAGG
ATGAAGATCTGGATTCTTCAGAAGGAAGTTCTCAAGAGGGCGGTGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG223902 representing NM_001009615

Red=Cloning site Green=Tags(s)

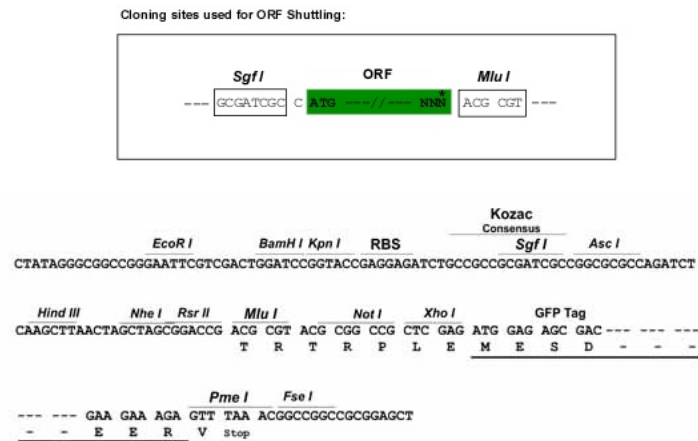
MEQPTSSSTNGEKRKSPCESNNKKNDQM EAPNRVLAPKQSLQKTKTIEYLTIIIVYYRKHKTINSNQLEK
DQSRENSINPVQEEDEGLDSAEGSSQDEDLDSSEGSSQDEDLDSSEGSSQDEDLDSSEGSSQDEDL
LDSSEGSSQDEDLDPPEGSSQDEDLDSSEGSSQEGGED

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001009615

ORF Size:

540 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001009615.1](#), [NP_001009615.1](#)

RefSeq Size: 543 bp

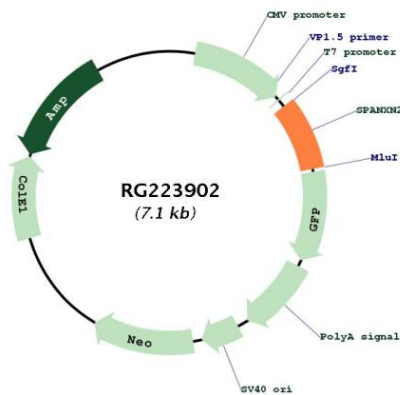
RefSeq ORF: 543 bp

Locus ID: 494119

UniProt ID: [Q5MJ10](#)

Cytogenetics: Xq27.3

Product images:



Circular map for RG223902