

Product datasheet for **RG205214**

Stannin (SNN) (NM_003498) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: TurboGFP

Symbol: Stannin

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PSI00010)

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

ORF Nucleotide Sequence: >RG205214 representing NM_003498
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCTATTATGGACCACAGCCCCACCACGGCGTGGTCACAGTCATCGTCATCCTCATTGCCATCGCGG
CCCTGGGGCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAGCCAGTCAGAGGACGA
GGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCTTCCTGCTGGTGCAATTCGCCAAGGGACCG
TGCGTGGAGAGAAAGGCCAAGCTGATGACTCCCAACGCCCGGAAGTCCACGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205214 representing NM_003498
Red=Cloning site Green=Tags(s)

MSIMDHSPTTGVTIVILIAIALGALILGCWYLRQLRISQSEDEESIVGDGETKEPFLLVQYSAKGP
CVERKAKLMTPNGPEVHG

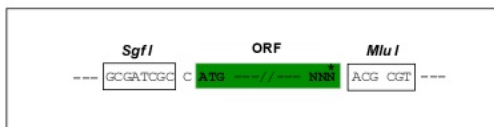
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoR I
BamH I *Kpn I*
RBS
Kozac Consensus
Sgf I
Asc I

CTATAGGGCGGCCGGGAATTCTGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCATCGCCGGCGCCGCAGATCT

Hind III
Nhe I
Rsr II
Mlu I
Not I
Xho I
GFP Tag

CAAGCTTAAC TAGTAGTCAGCGGACCG ACG CGT ACG CGG CGG CTC GAG ATG GAG ACG GAC --- --- ---
 T R T R P L E M E S D - - -

Pme I
Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
 - - - E E R V Stop

ACCN: NM_003498

ORF Size: 264 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](#)

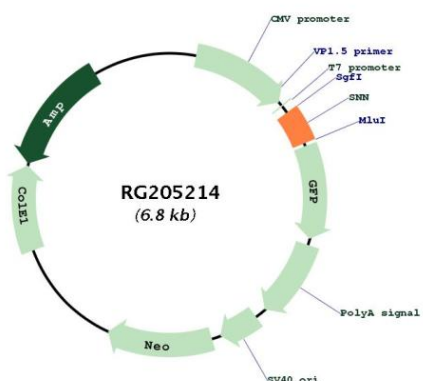
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_003498.6</u>
RefSeq Size:	3307 bp
RefSeq ORF:	267 bp
Locus ID:	8303
UniProt ID:	<u>O75324</u>
Cytogenetics:	16p13.13
Protein Families:	Transmembrane

Gene Summary: Plays a role in the toxic effects of organotin (PubMed:15269288). Plays a role in endosomal maturation (PubMed:27015288).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205214