

Product datasheet for **RG202408**

TRAP alpha (SSR1) (NM_003144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAP alpha (SSR1) (NM_003144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRAP alpha
Synonyms:	TRAPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202408 representing NM_003144 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAGACTCTCCCCGCTTGCTGCTGCTTCTCTTACTCGTGTTCCCTGCCACTGTCTTGTTCGAGGCG
GCCCCAGAGGCTTGTTAGCAGTGGCACAAGATCTTACAGAGGATGAAGAAACAGTAGAAGATTCCATAAT
TGAGGATGAAGATGATGAAGCCGAGGTAGAAGAAGATGAACCCACAGATTTGGTAGAAGATAAAGAGGAA
GAAGATGTGTCTGGTGAACCTGAAGCTTACCGAGTGCAGATACAATACTACTGTTGTAAAGGAGAAG
ATTTTCCAGCAAATAACATTGTGAAGTTCCTGGTAGGCTTTACCAACAAGGTACAGAAGATTTTATTGT
TGAATCCTTAGATGCCTATTCCGTTATCCTCAGGACTACCAGTTTATATCCAGAATTTACAGCTCTT
CCTCTGAACACTGTAGTGCCACCCAGAGACAGGCAACTTTTGTAGTACTTTTCATTCTGCAGAGCCCCA
TGGGCGGACGACCATTTGGTTTGGTCATCAATCTGAACTACAAAGATTTGAACGGCAATGTATTCCAAGA
TGCAGTCTTCAATCAAACAGTTACAGTTATTGAAAGAGAGGATGGGTTAGATGGAGAAACAATCTTTATG
TATATGTTCTTGCTGGTCTTGGGCTTCTGGTTATTGTTGGCCTTCATCAACTCCTAGAATCTAGAAAGC
GTAAGAGACCCATACAGAAAGTAGAAATGGGTACATCAAGTCAGAATGATGTTGACATGAGTTGGATTCC
TCAGGAAACATTGAATCAAATCAATAAAGCTTCACCAAGAAGTTGCCAGGAAACGGGCACAGAAGAGA
TCAGTGGGATCTGATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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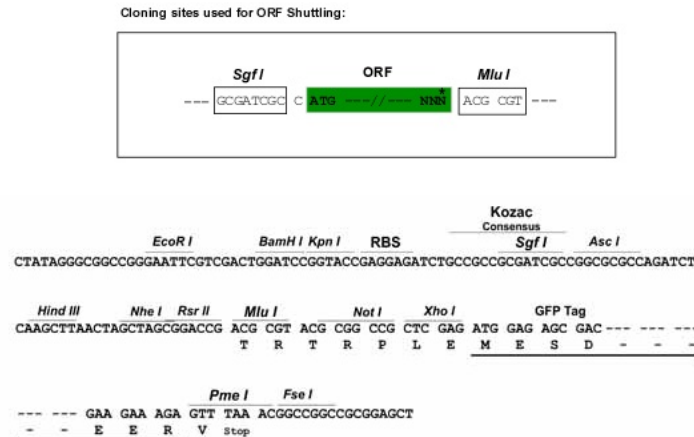
Protein Sequence: >RG202408 representing NM_003144
 Red=Cloning site Green=Tags(s)

MRLLPRLLLLLLVFPATVLFRRGPRGLLAVAQDLTEDEETVEDSIIIEDEDEAEVEEDEPTDLVEDKEE
 EDVSGEPEASPSADTTILFVKGEDFPANNIVKFLVGFNKGTEDFIVESLDASFRYPQDYQFYIQNFTAL
 PLNTVVPQRQATFEYSFIPAEPMGGRPFGLVINLNYKDLNGNVFQDAVFNQTVTVIEREDGLDGETIFM
 YMFLAGLGLLVIVGLHQLLESRRKRPIQKVMGTSSQNDVDMSWIPQETLNQINKASPRRLPRKRAQKR
 SVGSDE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003144

ORF Size: 858 bp

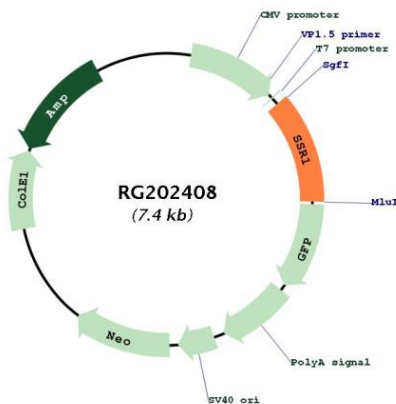
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_003144.5</u>
RefSeq Size:	3285 bp
RefSeq ORF:	861 bp
Locus ID:	6745
UniProt ID:	<u>P43307</u>
Cytogenetics:	6p24.3
Domains:	TRAP_alpha
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The signal sequence receptor (SSR) is a glycosylated endoplasmic reticulum (ER) membrane receptor associated with protein translocation across the ER membrane. The SSR consists of 2 subunits, a 34-kD glycoprotein encoded by this gene and a 22-kD glycoprotein. This gene generates several mRNA species as a result of complex alternative polyadenylation. This gene is unusual in that it utilizes arrays of polyA signal sequences that are mostly non-canonical. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

Product images:



Circular map for RG202408