

Product datasheet for **RC202408**

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:	Myc-DDK
Symbol:	TRAP alpha
Synonyms:	TRAPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202408 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAGACTCCTCCCCGCTTGCTGCTGCTTCTCTTACTCGTGTTCCCTGCCACTGTCTTGTTCGAGGCG
GCCCCAGAGGCTTGTTAGCAGTGGCACAAGATCTTACAGAGGATGAAGAAACAGTAGAAGATTCCATAAT
TGAGGATGAAGATGATGAAGCCGAGGTAGAAGAAGATGAACCCACAGATTTGGTAGAAGATAAAGAGGAA
GAAGATGTGTCTGGTGAACCTGAAGCTTACCGAGTGCAGATACAATACTACTGTTGTAAAGGAGAAG
ATTTTCCAGCAAATAACATTGTGAAGTTCCTGGTAGGCTTTACCAACAAGGTACAGAAGATTTTATTGT
TGAATCCTTAGATGCCTATTCCGTTATCCTCAGGACTACCAGTTTATATCCAGAATTTACAGCTCTT
CCTCTGAACACTGTAGTGCCACCCAGAGACAGGCAACTTTTGTAGTACTTTTCATTCTGCAGAGCCCCA
TGGGCGGACGACCATTTGGTTTGGTTCATCAATCTGAACTACAAAGATTTGAACGGCAATGTATTCCAAGA
TGCAGTCTTCAATCAAACAGTTACAGTTATTGAAAGAGAGGATGGGTTAGATGGAGAAACAATCTTTATG
TATATGTTCTTGCTGGTCTTGGGCTTCTGGTTATTGTTGGCCTTCATCAACTCCTAGAATCTAGAAAGC
GTAAGAGACCCATACAGAAAGTAGAAATGGGTACATCAAGTCAGAATGATGTTGACATGAGTTGGATTCC
TCAGGAAACATTGAATCAAATCAATAAAGCTTCACCAAGAAGGTTGCCAGGAAACGGGCACAGAAGAGA
TCAGTGGGATCTGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202408 protein sequence
 Red=Cloning site Green=Tags(s)

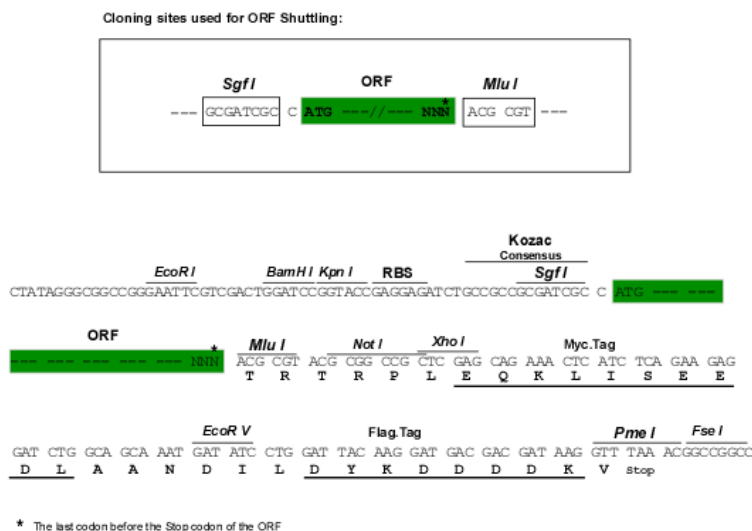
MRLPRLLLLLLLLVFPATVLFRRGPRGLLAVAQDLTEDEETVEDSIIIEDEDDEAEVEEDEPTDLVEDKEE
 EDVSGEPEASPSADTTILFVKGEDFPANNIVKFLVGFTNKGTEDFIVESLDASFRYPQDYQFYIQNFTAL
 PLNTVPPQRQATFEYSFIPAEPMGRRPFGVLINLNYKDLNGNVFQDAVFNQTVTVIEREDGLDGETIFM
 YMFLAGLGLLVIVGLHQLLESRRKRKRIQKVMGTTSSQNDVDSWIPQETLNQINKASPRRLPRKRAQKR
 SVGSDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6076_a12.zip

Restriction Sites: Sgfl-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: [NM_003144.5](#)

RefSeq Size: 9793 bp

RefSeq ORF: 861 bp

Locus ID: 6745

UniProt ID: [P43307](#)

Cytogenetics: 6p24.3

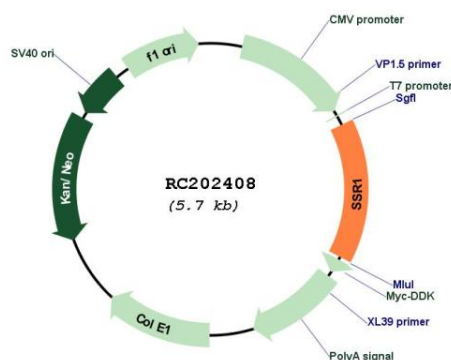
Domains: TRAP_alpha

Protein Families: Druggable Genome, Transmembrane

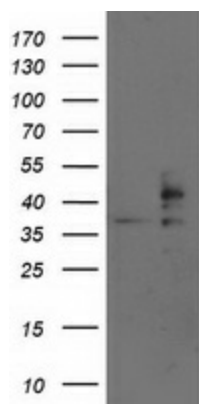
MW: 32.2 kDa

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]

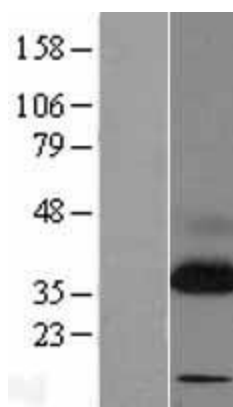
Product images:



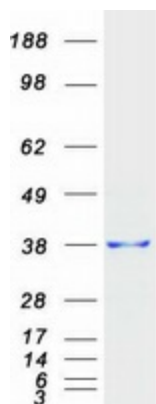
Circular map for RC202408



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SSR1 (Cat# RC202408, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SSR1 (Cat# [TA503268]). Positive lysates [LY401093] (100ug) and [LC401093] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401093]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202408 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SSR1 protein (Cat# [TP302408]). The protein was produced from HEK293T cells transfected with SSR1 cDNA clone (Cat# RC202408) using MegaTran 2.0 (Cat# [TT210002]).