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Product datasheet for RG214004

ROPN1 (NM_017578) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ROPN1
Synonyms:	CT91; ODF6; RHPNAP1; ROPN1A; ropporin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG214004 representing NM_017578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCAGACAGATAAGCCAACATGCATCCCGCCGGAGCTGCCGAAGATGCTGAAGGAGTTTGCCAAAG
CCGCCATTAGGGTGCAGCCGCAGGACCTCATCCAGTGGGCAGCCGATTATTTTGAGGCCCTGTCCCGTGG
AGAGACGCCTCCGGTGAGAGAGCGGTCTGAGCGAGTCGCTTTGTGTAACCGGGCAGAGCTAACACCTGAG
CTGTTAAAGATCCTGCATTCTCAGGTTGCTGGCAGACTGATCATCCGTGCAGAGGAGCTGGCCCAGATGT
GGAAAGTGGTGAATCTCCCAACAGATCTGTTTAATAGTGTGATGAATGTGGGTCGCTTCACGGAGGAGAT
CGAGTGGCTGAAGTTTTTAGCCCTTGCTTGCAGCGCTCTGGGAGTTACTATTACCAAAACTCTCAAGATA
GTGTGTGAGGTCTTATCATGTGACCATAATGGTGGGTCGCCCCGGATCCCGTTCAGCACCTTCCAGTTTC
TCTACACGTATATTGCCAAAGTGGATGGGGAGATCTCTGCATCACATGTCAGCAGGATGCTAAACTACAT
GGAACAGGAAGTAATTGGCCCTGATGGTATAATCACAGTGAATGACTTTACCCAAAACCCCAGGGTTCAG
CTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214004 representing NM_017578
Red=Cloning site Green=Tags(s)

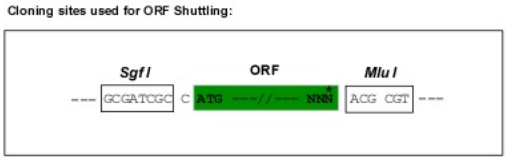
MAQTDKPTCIPPELPKMLKEFAKAAIRVQPQDLIQWAADYFEALSRGETPPVRERSERVALCNRAELTPE
LLKILHSQVAGRLIIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWLKFLALACSALGVTITKTLKI
VCEVLSCDHNGGSPRIPFSTFQFLYTYIAKVDGEISASHVSRMLNYMEQEVIGPDGIITVNDFTQNPRVQ
LE

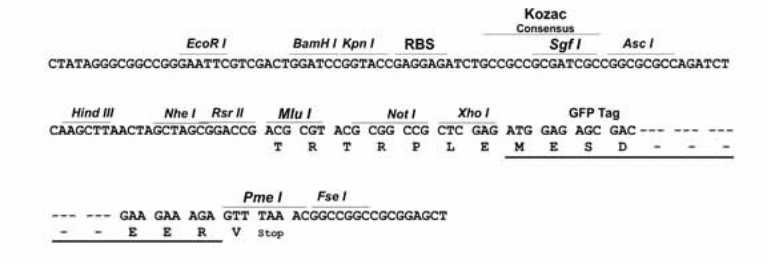
TRTRPLE - GFP Tag - V

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:





ACCN: NM_017578

ORF Size: 636 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

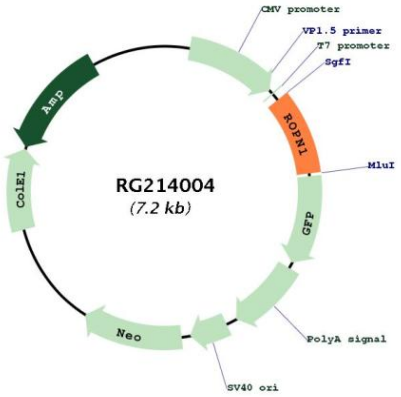
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_017578.4
RefSeq Size:	1112 bp
RefSeq ORF:	639 bp
Locus ID:	54763
UniProt ID:	Q9HAT0
Cytogenetics:	3q21.1
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is found in the fibrous sheath of spermatazoa, where it interacts with rhophilin, a Rho GTPase binding protein. The encoded protein also can bind an A-kinase anchoring protein (AKAP110) and a calcium-binding tyrosine phosphorylation-regulated protein (CABYR). This protein may be involved in sperm motility and has been shown to be a cancer-testis antigen in hematologic malignancies. Several transcript variants, some protein-coding and some non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG214004