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Product datasheet for RG211962

TSGA14 (CEP41) (NM_018718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TSGA14
Synonyms:	JBTS15; TSGA14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG211962 representing NM_018718
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCTCCGGAGGCACATTGGGAACCCTGAGTATCTGATGAAAAGGATACCACAGAACCCAAGATACC
AGCATATCAAATCAAGACTGGACACTGGTAACAGTATGACTAAATATACTGAGAAGCTCGAAGAGATTAA
GAAAAATTATAGATACAAAAAAGATGAGCTTTTCAAGAGACTAAAAGTTACAACTTTTGCCCAGCTGATC
ATCCAAGTTGCTTCCCTCTCTGATCAAACACTGGAAGTGACAGCTGAGGAGATTCAAAGGCTGGAAGACA
ATGATTCTGCAGCTTCAGACCCTGATGCTGAAACCACTGCCAGGACCAATGGGAAAGGAAATCCAGGTGA
GCAGTCGCCGAGCCCTGAGCAGTTCATAAACAACGCAGGAGCAGGGGACTCCAGCCGCTCAACTCTTCAG
AGTGTCATCAGTGGTGTTGGGGAACTGGATCTAGACAAAGGGCCAGTGAAGAAAGCAGAGCCCCATACCA
AAGACAAACCTTATCCTGACTGCCCCTTCCTGCTGCTAGATGTGCGTGATAGAGATTCTTACCAGCAGTG
CCACATTGTTGGAGCTTACAGTTACCCAATTGCAACTCTGTCTAGAACAATGAACCCTTATTCAAATGAT
ATTCTTGAATATAAAAATGCCCATGGCAAGATCATCATTCTGTATGACGATGATGAAAGGCTGGCCAGTC
AGGCGGCCACCACCATGTGCGAGCGTGGATTTGAAAACCTCTTCATGCTTTCCGGAGGTCTAAAAGTCTT
AGCTCAGAAATTCCCGGAAGGACTGATTACTGGTTCCCTGCCAGCATCTTGCCAGCAGGCCCTTCCTCCT
GGGTCTGCCCGGAAACGATCCAGCCCCAAAGGGCCACCCCTACCAGCTGAGAATAAATGGAGATTTACCC
CAGAAGACTTAAAAAAGATAGAATATTATCTGGAAGAGGAGCAAGGGCCTGCAGATCATCCTAGCCGACT
GAACCAAGCTAACTCCTCCGGAAGAGAGTCCAAGGTGCCTGGTGCCCGAAGCGCTCAGAATCTGCCAGGT
GGCGGCCCCGCCAGCCACTCAAACCCCCGCTCCCTCAGCAGTGGTCACCTGCAAGGCAAACCCTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

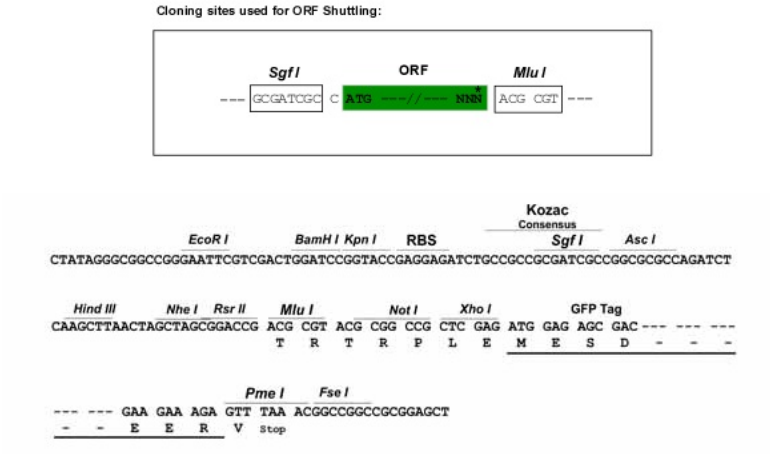
>RG211962 representing NM_018718
Red=Cloning site Green=Tags(s)

MSLRRHIGNPEYLMKRIPQNPRYQHIKSRLDTGNSMTKYTEKLEEIKKNYRYKKDELFKRLKVTTFAQLI
IQVASLSDQTLEVTAEEIQRLEDNDSAASDPDAETTARTNGKGNPGEQSPSPEQFINNAGAGDSSRSTLQ
SVISGVGELDLDKGPVKKAEPHTKDKPYPDCPFLLLDVRDRDSYQQCHIVGAYSYPIATLSRTMNPYSND
ILEYKNAHGKIIILYDDDERLASQAATTMCERGFENLFMLSGGLKVLAQKFPEGLITGSLPASCQQALPP
GSARKRSSPKGPPLPAENKWRFTPEDLKKIEYYLEEEQGPADHPSRLNQANSSGRESKVPGARSAQNLPG
GGPASHSNPRSLSSGHLQGKPWK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018718

ORF Size: 1119 bp

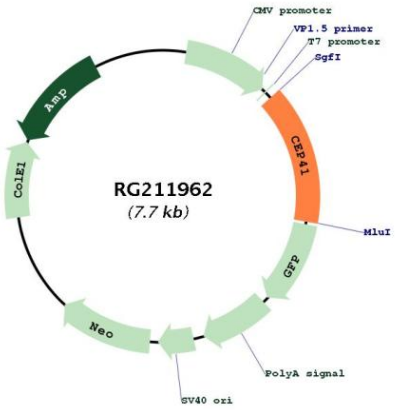
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_018718.3
RefSeq Size:	3526 bp
RefSeq ORF:	1122 bp
Locus ID:	95681
UniProt ID:	Q9BYV8
Cytogenetics:	7q32.2
Domains:	RHOD
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a centrosomal and microtubule-binding protein which is predicted to have two coiled-coil domains and a rhodanese domain. In human retinal pigment epithelial cells the protein localized to centrioles and cilia. Mutations in this gene have been associated with Joubert Syndrome 15; an autosomal recessive ciliopathy and neurological disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG211962