

Product datasheet for **RC233649**

TSGA14 (CEP41) (NM_001257159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSGA14 (CEP41) (NM_001257159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TSGA14
Synonyms:	JBTS15; TSGA14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233649 representing NM_001257159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCCCTCCGGAGGCACATTGGGAACCCTGAGTATCTGATGAAAAGGATACCACAGAACCCAAGATACC
AGCATATCAAATCAAGACTGGACACTGATTATAGATACAAAAAGATGAGCTTTTCAAGAGACTAAAAGT
TACAACTTTTCCCAGCTGATCATCCAAGTTGCTTCCCTCTCTGATCAAACTGGAAGTGACAGCTGAG
GAGATTCAAAGGCTGGAAGACAATGATTCTGCAGCTTCAGACCCTGATGCTGAAACCACTGCCAGGACCA
ATGGGAAAGGAAATCCAGGTGAGCAGTCGCCGAGCCCTGAGCAGTTCATAAACAACGCAGGAGCAGGGGA
CTCCAGCCGCTCAACTCTTCAGAGTGTCATCAGTGGTGTGGGGAACGGATCTAGACAAAGGGCCAGTG
AAGAAAGCAGAGCCCCATACCAAGACAAACCTTATCCTGACTGCCCCCTTCTGTGCTAGATGTGCGTG
ATAGAGATTCTTACCAGCAGTGCCACATTGTTGGAGCTTACAGTTACCCAATTGCAACTCTGTCTAGAAC
AATGAACCCTTATTCAAATGATATTCTTGAATATAAAATGCCCATGGCAAGATCATATTCTGTATGAC
GATGATGAAAGGCTGGCCAGTCAGGCGGCCACCACCATGTGCGAGCGTGGATTGAAAACCTCTTCATGC
TTTCCGGAGGCCGACTGAACCAAGCTAACTCCTCCGAAGAGAGTCCAAGGTGCCTGGTCCCCGAAGCGC
TCAGAATCTGCCAGGTGGCGGCCCGCCAGCCACTCAAACCCCGCTCCCTCAGCAGTGGTCACTGCAA
GGCAAACCCTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC233649 representing NM_001257159

Red=Cloning site Green=Tags(s)

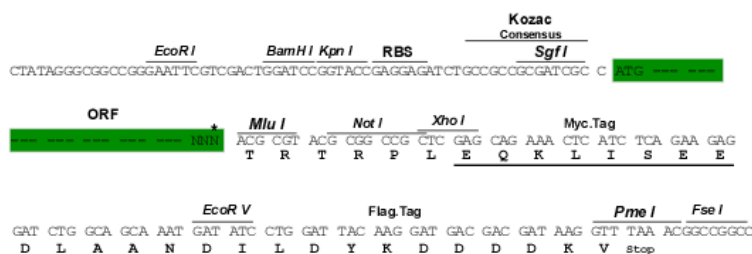
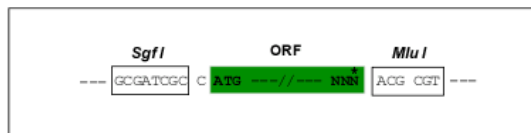
MSLRRHIGNPEYLMKRIPQNPRYQHIKSRSLD TDYRYKKDEL FKRLKVTTF AQLIIQVASLSDQTLEVTAE
EIQRLEDNDS AASDPDAETTARTNGKGNPGEQSPSEQFINNAGAGDSSRSTLQSVISGVGELDLDKGPV
KKAEPHTKDKPYPCDFLLLDVRDRDSYQQCHIVGAYSPIATLSRTMPNPSNDILEYKNAHGKIIILYD
DDEPLASQAATTMCERGFE NLFMLSGGRLNQANSSGRESKVPGARSAQNLPGGGPASHNSNPRSLSSGHLQ
GKRPWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001257159

ORF Size: 855 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_001257159.1, NP_001244088.1

RefSeq Size: 6222 bp

RefSeq ORF: 858 bp

Locus ID: 95681

UniProt ID: Q9BYV8

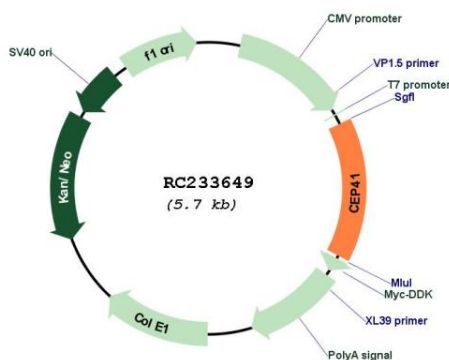
Cytogenetics: 7q32.2

Protein Families: Druggable Genome

MW: 32 kDa

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 RC233649