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Product datasheet for RG220859

TACC2 (NM_206861) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TACC2 (NM_206861) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TACC2
Synonyms:	AZU-1; ECTACC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220859 representing NM_206861
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAATGAGAACAGCACCTCGGACAACCAGAGGACTTTATCAGCTCAGACTCCAAGGTCCGCGCAGC
CACCCGGGAACAGTCAGAATATAAAAAGGAAGCAGCAGGACACGCCCGGAAGCCCTGACCACAGAGACGC
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GCTGCCTCTTCCTACCACGGTGATGTTGTTGGCCAGGTCTCTACGGATCTGATAGCCCAGAGGAGTTCCG
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ACCCCCCGAAGTCATCCCAGAACCCGAGGTCAGCACACAGCCACCCCCGGAAGAACCAGGATGTGGTTCT
GAGACAGTCCCTGTCCCTGATGGCCCACGGAGCGACTCGGTGGAAGGAAGTCCCTTCCGTCCCCCGTCAC
ACTCCTTCTCTGCCGTCTTCGATGAAGACAAGCCGATAGCCAGCAGTGGGACTTACAACTTGGACTTTGA
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CCCAATTTTAACCCTTTTTCTTCCACCTCAAAAATGCAGGAGTCTCCCAAACTGCCCCAACAATCATACA
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TTCTAAATCCCCAGCCTCCTTTGAGATCCCAGCCAGTGCTATGGAAGCCAATGGAGTGGACGGGGATGGG
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GCCCACCAGGCCAGCCTGCGGAAGGAGCAGCTGCGAGTGGACGCCCTGGAAAGGACGCTGGAGCAGAAGA
ATAAAGAAATAGAAGAACTCACCAAGATTTGTGACGAACTGATTGCCAAAATGGGGAAAAGC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220859 representing NM_206861
Red=Cloning site Green=Tags(s)

MGNENSTSDNQRTLSAQTPRSAQPPGNSQNIKRKQQDTPGSPDHRDASSSPVADDIIQPAAPADLESPTL
AASSYHGDVVGQVSTDLIAQRSSDSEEAFETPESTTPVKAPPAPPPPPPEVIPEPEVSTQPPPEEPGCGS
ETVPVPDGPRSDSVEGSPFRPPSHSFSAVFDEDKPIASSGTYNLDFDNIELVDTFQTLEPRASDAKNQEG
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QESPVKSSPVRMSESPTPCSGSSFEETEALVNTAAKNQHPVPRGLAPNQESHLQVPEKSSQKELEAMGLG
TPSEAIEITAPEGSFASADALLSRLAHPVSLCGALDYLEPDLAEKNPPLFAQKLQEELEFAIMRIEALKL
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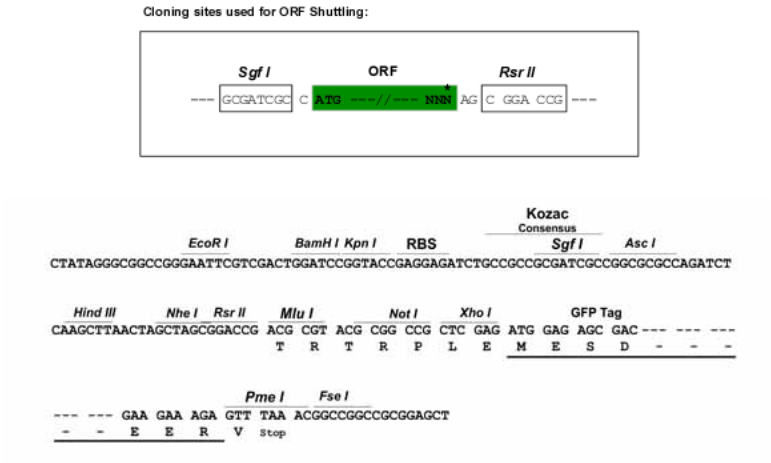
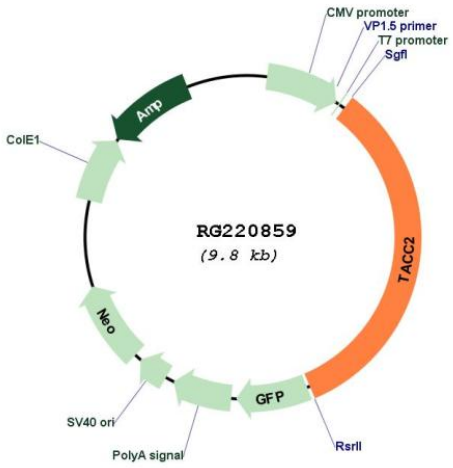
SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:	NM_206861
ORF Size:	3282 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.
RefSeq:	NM_206861.3
RefSeq Size:	4144 bp
RefSeq ORF:	3285 bp
Locus ID:	10579
UniProt ID:	O95359
Cytogenetics:	10q26.13
Gene Summary:	Transforming acidic coiled-coil proteins are a conserved family of centrosome- and microtubule-interacting proteins that are implicated in cancer. This gene encodes a protein that concentrates at centrosomes throughout the cell cycle. This gene lies within a chromosomal region associated with tumorigenesis. Expression of this gene is induced by erythropoietin and is thought to affect the progression of breast tumors. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]