

Product datasheet for **RG202492**

FRAT2 (NM_012083) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRAT2 (NM_012083) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRAT2
Synonyms:	FRAT-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202492 representing NM_012083 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTGCCGGAGGGAGGAGGAAGAGGAAGCCGGCGAGGAGGCGGAGGGGGAGGAAGAGGAGGACGACA
GCTTCCTCCTGCTGCAGCAGTCGGTGACGCTGGGCGAGCTCGGGCGAGGTGGACCGCTGGTGCCAGAT
CGGCGAGACGCTGCAGCTGGACGCGGCGCAGGACAGCCCGGCTCGCCGTGCGCGCCCCGGGGTGCCG
CTGCGGGCCCCGGGCCCTGGCTGCGGCGGTGCCGACGACAAGGCCCGGCCCGCGGTGCCGCTGC
TGCTGCCGCCGCTTCGGCTGAGACGGTGGGCCCGGCCCTCTGGGGCCCTGCGCTGCGCCCTAGGGGA
CCGCGGCCGCTGCGCGGACGCGCTGCGCCCTACTGCGTGGCGGAGGTGCCCGCAGGCCCCAGCGCGCTG
CCGGGGCCGCTGCCGGCGAGGATGGCTCAGGGACGCGGTACCTCCCGCCGCTTGCAGCAGCGCCATGGA
CCCAAGCCGGGGCACGCGCCGGGACGACGACCCGCATCGGCTCCTCCAGCAGCTCGTGCTCTCGGGAAA
CCTCATCAAGGAAGCCGTGCGGAGACTCCAACGAGCCGTGCGCGGTTGCAGCCACGGGCCCGCAAGC
GCCCTGGGCCCGGGGAGGCCGAGCGGACCTGACCGCATTGCCCTGCAGCCCTCAGGCTCCTTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202492 representing NM_012083
 Red=Cloning site Green=Tags(s)

MPCRREEEEEAGEEEAEGEEEEEEDDSFLLLQQSVTLGSSGEVDRLVAQIGETLQLDAAQDSPASPCAPPVGP
 LRAPGPLAAAVPTDKARPPAVPLLLPPASAEVGPAPSGALRCALGDRGRVVRGRAAPYCVAEVAAGPSAL
 PGPCCRGLRDAVTSRRLQRRWTQAGARAGDDDPHRLQLQLVLSGNLKEAVRRLQRAVAAVAATGPAS
 APGPGGGRSGPDRIALQPSGSL

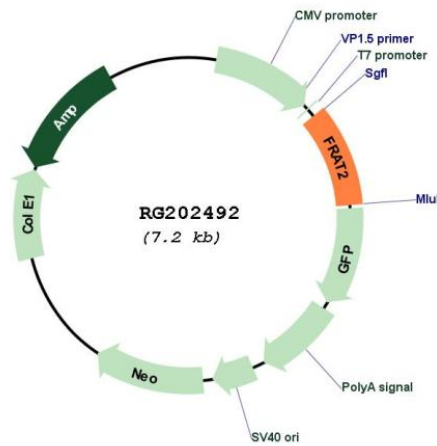
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012083

ORF Size: 699 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:	<ol style="list-style-type: none">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_012083.2 , NP_036215.1
RefSeq Size:	2222 bp
RefSeq ORF:	702 bp
Locus ID:	23401
UniProt ID:	O75474
Cytogenetics:	10q24.1
Domains:	GSK-3_bind
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS
Protein Pathways:	Wnt signaling pathway
Gene Summary:	The protein encoded by this intronless gene belongs to the GSK-3-binding protein family. Studies show that this protein plays a role as a positive regulator of the WNT signaling pathway. It may be upregulated in tumor progression. [provided by RefSeq, Jul 2008]