

Product datasheet for **RG205287**

FRAT1 (NM_005479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRAT1 (NM_005479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FRAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205287 representing NM_005479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTGCCGGAGGGAGGAGGAAGAGGAAGCCGGCGAGGAGGCCGGAGGGGGAGGAAGAGGAGGAGGACA
GCTTCCTCCTACTGCAGCAGTCAGTGGCGCTGGGCGAGCTCGGGCGAGGTGGACCGGCTGGTGGCCAGAT
CGGCGAGACGCTGCAGCTGGACCGCGGCAGCACAGCCCGGCTCGCCGTGCGGGCCCCGGGGGCGCCG
CTGGCGGGCCCCGGGGCCCTGGCTGCGGCGGTGCCGGCGGACAAGGCCAGGTCCCCGGCGGTGCCGCTGC
TGCTGCCCGCCGCTGGCGGAGACTGTGGGCCCGGCCCTGGGGTCTGCGCTGCGCCCTGGGGGA
CCGCGGCCGCGTGCGGGGCCGCGCTGCGCCCTACTGCGTGGCCGAGCTCGCCACAGGCCCCAGCGCGCTG
TCCCCACTGCCCCCTCAGGCCGACCTTGATGGGCTCCGGGAGCTGGCAAGCAGGGCATCCCGCAGCCGC
TGTCCGGTCCGTGCCGGCAGGATGGCTCCGGGGCGCCGCGCTCCCGCCGCTGCAGCAGCGACGCGG
GTCCCAACCAGAAACCCGCACAGGCGACGACGCCGACCGGCTTCTGCAGCAGCTAGTGCTCTGGA
AACCTCATCAAGGAGGCCGTGCGAAGGCTTCATTCGCGACGGCTGCAGTTACGTGCAAAGCTTCCCAAC
GCCGCTCCTGGACCTGTGCGCCCCGGTGCATGAACCCCTTCGCTCGCAGCCCTCGCGGGCCTG
CAGTGACCCTGGCGCTCCGGGAGGGCGCAGCTCAGAAGTGGCGACGGCCTTCTGTGCCTGGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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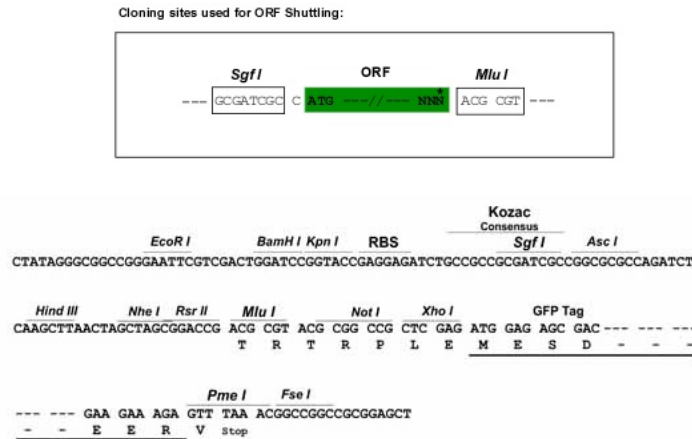
Protein Sequence: >RG205287 representing NM_005479
Red=Cloning site Green=Tags(s)

MPCRREEEEEAGEEEAEEEEEDSFLLLQQSVALGSSGEVDRLVAQIGETLQLDAAQHSPASPCGPPGAP
 LRAPGPLAAAVPADKARSPAVPLLLPPALAEVGPAPPGLRCALGDRGRVVRGRAAPYCVAEATGPSAL
 SPLPPQADLDGPPGAGKQGIPLSGPCRRGWLGGAAASRRLLQRRGSQPETRTGDDDPHRLQLQLVLSG
 NLIKEAVRRLHSRRLQLRAKLPQRPLGPLSAPVHEPPSPRSPRAACSDPGASGRAQLRTGDGVLVPGS

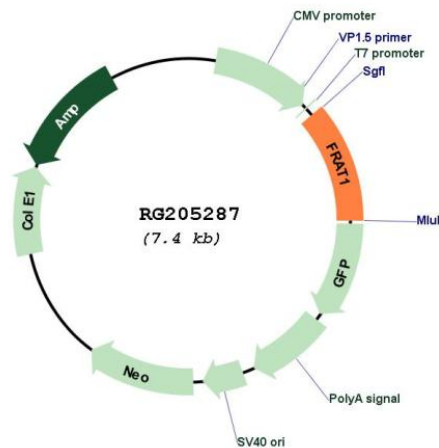
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_005479

ORF Size: 837 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_005479.4
RefSeq Size:	2653 bp
RefSeq ORF:	840 bp
Locus ID:	10023
UniProt ID:	Q92837
Cytogenetics:	10q24.1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Wnt signaling pathway
Gene Summary:	The protein encoded by this gene belongs to the GSK-3-binding protein family. The protein inhibits GSK-3-mediated phosphorylation of beta-catenin and positively regulates the Wnt signaling pathway. It may function in tumor progression and in lymphomagenesis. [provided by RefSeq, Oct 2008]