OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC303653

FRAT1 (NM_005479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRAT1 (NM_005479) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRAT1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

```
>OriGene sequence for NM_005479 edited
AGCGGGCGCGGCTAGAGTGCCTGGCGGGCTCCGGCTTCCGCGTCCGCCCCGGCCCCGGTC
CAGACTTAGTCTTCAGCTCCGCGCCCGCTCCGCCGCGGCCCACCGCGCCCGCCGGCAGCC
GAGCCCCCAGCGACGCCCGCACAGCTCCGGGTGCCCAGACAGGGGGCCATGCCGTGCCGG
AGGGAGGAGGAAGAGGAAGCCGGCGAGGAGGCGGAGGGGGAGGAAGAGGAGGAGGACAGC
TTCCTCCTACTGCAGCAGTCAGTGGCGCTGGGCAGCTCGGGCGAGGTGGACCGGCTGGTG
GCCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAGCACAGCCCGGCCTCGCCGTGC
GGGCCCCCGGGGGCGCCGCTGCGGGCCCCGGGGCCCCTGGCTGCGGCGGTGCCGGCGGAC
AAGGCCAGGTCCCCGGCGGTGCCGCTGCTGCTGCCGCCCGCGTTGGCGGAGACTGTGGGC
CCGGCGCCGCCTGGGGTCCTGCGCTGCGCCCTGGGGGACCGCGGCCGCGTGCGGGGCCGC
GCTGCGCCCTACTGCGTGGCCGAGCTCGCCACAGGCCCCAGCGCGCTGTCCCCACTGCCC
CCTCAGGCCGACCTTGATGGGCCTCCGGGAGCTGGCAAGCAGGGCATCCCGCAGCCGCTG
TCGGGTCCGTGCCGGCGAGGATGGCTCCGGGGCGCCGCCGCCCCCCGCCGCCTGCAGCAG
CGACGCGGGTCCCAACCAGAAACCCGCACAGGCGACGACGACCCGCACCGGCTTCTGCAG
CAGCTAGTGCTCTCTGGAAACCTCATCAAGGAGGCCGTGCGAAGGCTTCATTCGCGACGG
CTGCAGTTACGTGCAAAGCTTCCCCAACGCCCGCTCCTGGGACCTCTGTCGGCCCCGGTG
CATGAACCCCCTTCGCCTCGCAGCCCTCGCGCGGCCTGCAGTGACCCTGGCGCCTCCGGG
AGGGCGCAGCTCAGAACTGGCGACGGCGTTCTTGTGCCTGGCAGCTAACACGCCCGGGGT
GGCCACAGCGCCAGCCTCAGACTGGAGGGCAAGGGGTTCCCTTGAGGGCTGCAGTTCTAC
TCAGGCTGGTGGAGAACTCTGGCTTTTGGAAGCGAGAGTAAAAAGCTAATGACGAGGAAC
CAAAAAAAAAAAAAAA
```


View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005479 unedited
NGGGTCGCATTTGTATACGACTCATATAGGCGGCCGCGCAATTCTCGAGAGCGGGCGCGG
CTAGAGTGCCTGGCGGGCTCCGGCTTCCGCGTCCGCCCCGGCCCCGGTCCAGACTTAGTC
TTCAGCTCCGCGCCCGCTCCGCCGCGGCCCACCGCGCCCGCCGGCAGCCGAGCCCCCAGC
GACGCCCGCACAGCTCCGGGTGCCCAGACAGGGGGCCATGCCGTGCCGGAGGGAGGAGGA
AGAGGAAGCCGGCGAGGAGGCGGAGGGGGAGGAAGAGGAGGAGGACAGCTTCCTCCTACT
GCAGCAGTCAGTGGCGCTGGGCAGCTCGGGCGAGGTGGACCGGCTGGTGGCCCAGATCGG
CGAGACGCTGCAGCTGGACGCGGCGCAGCACAGCCCGGCCTCGCCGTGCGGGCCCCCGGG
GGCGCCGCTGCGGGCCCCGGGGCCCCTGGCTGCGGCGGTGCCGGCGGACAAGGCCAGGTC
CCCGGCGGTGCCGCTGCTGCTGCCGCCCGCGTTGGCGGAGACTGTGGGCCCGGCGCCGCC
TGGGGTCCTGCGCTGCGCCCTGGGGGACCGCGGCCGCGTGCGGGGCCGCGCTGCGCCCTA
CTGCGTGGCCGAGCTCGCCACAGGCCCCAGCGCGCTGTCCCCACTGCCCCCCTCAGCCGA
CCTTGATGGGCCTCCGGGAGCTGGCAAGCANGGCATCCCGCAGCCGCTGTCGGGTCCGTG
CCGGCGAAGATGGGTNCGGGGCGCCGCCGNCCCCCGGCGGCTGGAGGAGGNANNCGGNTN
CNACCANNAACCCGCACAAGCCACAACCACCCCCACCGCCTNCTGCANCANCTANTGCTC
TCTGGAAACCTCATCAAGGAGGGCGTGCGAAAGCTTCATTCCCGAGGGTGGCGTTACCT

Restriction Sites: NotI-NotI

ACCN: NM_005479

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. This results in the substitution of 1 amino acid.

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_005479.2, NP_005470.2

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] Transcript Variant: This variant (1) represents the longer transcript.