

Product datasheet for **SC100558**

FRAT2 (NM_012083) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRAT2 (NM_012083) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRAT2
Synonyms:	FRAT-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100558 sequence for NM_012083 edited (data generated by NextGen Sequencing)

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ATGCCGTGCCGGAGGGAGGAGGAAGAGGAAGCCGGCGAGGAGCGGAGGGGGAGGAAGAG
GAGGACGACAGCTTCTCCTGCTGCAGCAGTCGGTGACGCTGGGCAGCTCGGGCGAGGTG
GACCGGTGGTGGCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAGGACAGCCCG
GCCTCGCCGTGCGCGCCCCGGGGGTGCCGCTGCGGGCCCCGGGGCCCCTGGCTGCGGCG
GTGCCGGCGGACAAGGCCCGCCCCGGCGGTGCCGCTGCTGCTGCCGCCGCTTCGGCT
GAGACGGTGGGCCCGGCCCTCTGGGGCCCTGCGCTGCGCCCTAGGGGACCGCGGCCCGC
GTGCGCGGACGCGCTGCGCCCTACTGCGTGGCGGAGGTCGCCGACGGCCCCAGCGCGCTG
CCGGGGCCGTGCCGGCGAGGATGGCTCAGGGACGCGGTCACCTCCCGCCGCTTGCAGCAG
CGCCGATGGACCAAGCCGGGGCACGCGCCGGCGACGACGCCGCATCGGCTCCTCCAG
CAGCTCGTGTCTCGGGAAACCTCATCAAGGAAGCCGTGCGGAGACTCCAACGAGCCGTC
GCCGCGGTTGCAGCCACGGGCCCGCAAGCGCCCTGGGCCCGGGGGAGGCCGACGCGGA
CCTGACCGCATTGCCCTGCAGCCCTCAGGCTCCTTGTCTGA

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Clone variation with respect to NM_012083.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012083 unedited AATTTGTAATACGACTACTATAGGGCGGCNCGGAATTCGCACCAGGTGGCTCGAGTGC CTGGCGGGCTCCGGCTTCCGCGTCCGCCCTGCTCCGGCTTCGCCCACTGCTCCGCGCC CGCGGGCAACCAAGCCCCAGCGAAGCCCGCACAGCTCCGGGTGCCAGGACGGGGGGCCA TGCCGTGCCGGAGGGAGGAGGAAGGAAGCCGGCGAGGAGGCGGAGGGGGAGGAAGAGG AGGACGACAGCTTCTCCTGCTGCAGCAGTCCGTGACGCTGGGCAGCACGGGCGAGGTGG ACCGCTGGTGGCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAGGACAGCCCGG CCTCGCCGTGCGCGCCCCGGGGTGCCTGCGGGCCCCGGGGCCCTGGCTGCGGCGG TGCCGGCGGACAAGGCCCGGCCCGGGTGCCTGCTGCTGCGGCCCTCCGGCTG AGACGGTGGGCCCGCGCCCTCTGGGGCCCTGCGCTGCGCCCTAGGGGACCGGCGCCGG TGCGCGGACGCGCTGCGCCCTACTGCGTGGCGGAGGTCCGCCAGGCCACAGCGCGCTGA CGGGGCCGTGCCGGCAGGATGGCTACTGGACGCGGNCACCTTCCGCCGTTGCAGCAGC GCCGATGGACCAAGCCCGGACACGCGCCGGTGACGACACCCGCATCCGCTTCTGCAG CACCTCGTCTTCCGTACACCTATTAAGTAAGCCGTGCCGAGAACTCAACGAGCCGT TCGCCGGGGTGACGCCCGGTCCCGCAAGCGCCCTTGTCCCGCGGATCCCCAGCCG ACCTGAACGNATTGCCTTGCAGCNCTCAGCCTCCTTGCTCTGTACCAGTCTCCTGTAGAA GAACAGGAAGCCCTGTGTATACCAACGGGTCCAGTTCTACAACCTTTCTATTGTACCGG TTTTCTCTGGGAGCACACTTTGCTACGCGAGAGCCCCGGGAAATCCACACCG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012083 unedited AGAGCACTGGGGAAGTGGGTACAGGGCATGCCACCCGGTCTGTTTCAGGAAAAGCTAT GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCCAAAACAAAAGCCA AATTTATTCAGCAGACATTTAATTATGAAATCCTATAAATCAGGACCACCACAATTTCA GACACTCCGTTGCGAAGTGTACATCAATAGCTACATCTGGAGGATGAACAAGCCATTGAA TCTTTTAAAAATTGGTTTAGCTACCTTAAAGTTTTGGGGTGGCACCTTACAAAAGCGCCG TCAAGTTTCATACAGCCAGCGGCTTCTTCTCTGGGAGAGTCACATTTTAAAACCGTTTC AGACACAAAAGAAGGGCTGGCACGGGAGGAGGAAATAAATTTGTGAGGGTGAAGAGCCGCC GAGGCCGAGGCCCATGGCTCCATGGAGGGCCAGAAGAGAGCAGAAAAACGTCCAGGGTCT CTCATGCATTCTATAGACACCAGAAAGGTGGAATAAGAAAGCTCAGCTGGGAGGACAA GAAAGAGACTCAAGAGATCGTTTATGACTGTTTCTGAGAAAGCTCCTGGCATGGCCATGA GTGGCCTCCGGGAGTCTGTAAAAAGGAAAGCACAGAAAACAGGAAAGAACTCTCCCTA CACGTCCCTCTCTGCTGTTTGTCTCTCGGGAGACTCCAAGCGGTGGTAAAGCACCAAC AGGGCTCTTCTTGAGCAAGAGAAAAGAAAAGACTCCGGGGTGAAGTAAAGCTCTCCAGGAA CCCCACAGCAAACCGTGACCTTGAACACAGATGGCAAGGTCAAGTCATTTACAAGTCCAC ATTCAAATCAAATCTCCACCTGCAAAATCTCACTCTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_012083
Insert Size:	1900 bp
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).
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_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]