

Product datasheet for **RG228531**

THEMIS (NM_001164685) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	THEMIS (NM_001164685) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	THEMIS
Synonyms:	C6orf190; C6orf207; GASP; SPOT; TSEPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG228531 representing NM_001164685
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCATTATCACTGGAAGAATTCGTCCACTCCCTTGACCTCAGGACCCTACCCAGGGTTCTAGAAATCC
 AGGCAGGCATCTATCTTGAAGGCTCTATTATGAAATGTTTGAAATGAATGCTGTTTTCAACAGGAGA
 AGTGATTAATAATTACTGGTCTCAAAGTTAAGAAGATCATAGCTGAAATTTGTGAGCAGATTGAAGGTTGT
 GAGTCTCTACAGCCATTTGAAGTGCCTATGAATTTCCAGGTCTTTTAAAGATTGTGGTGATAAACTC
 CATACCTTACTATGGAAGAAATCACAAGGACCATTCATATTGGACCAAGTAGACTAGGGCATCCTTGCTT
 CTATCATCAGAAGGATATAAACTAGAGAACCTCATATAAGCAGGGTGAGCAAATCATGCTCAACTCA
 GTTGAAGAGATTGATGGAGAAATATGGTGAGCTGTGCAGTAGCAAGGAATCATCAAACCTACTCATTTA
 ATTTGCCTTTGTACAAGAAGGAGAATTCTACGAGTGTGAAGATGAACGTATTTACTCTAAAGGAGAT
 TGTTGAATGGAAGATTCCTAAGAACAGAACAAAGAACTGTAACCTTACAGATTTTCAAATAAGTGGGAC
 TCAACGAATCCATTTCTAAAGACTTTTATGGTACCCTGATTCTCAAGCCTGTTTATGAAATTCAGGTG
 TGATGAAATTTGAAAAGATATAATCCGCATCCTCCCCAGTCTAGATGTCGAAGTCAAAGACATCACTGA
 TTCTTACGATGCTAACTGGTTTCTTCAAGCTGTTATCAACAGAAGATCTTTTGAATGACTAGTAAAGAG
 TTCCCCATAGTGACTGAAGTCATAGAAGCACCTGAAGGAAACCACTGCCCAAAGCATTTTACAGCCTG
 GGAAAACCATTTGATCCACAAAAGTACCAGGCATCAAGAACTTAGCTTCAGAAATTAGAAGCAATTT
 TCCTAAAAGACACTTCTTGATCCCCACTAGCTATAAAGGCAAGTTCAAGCGGCGACCGAGGGAGTTCCCA
 ACGGCCTATGACCTAGAGATCGCTAAGAGTGAAAAGGAGCCTCTTACGTGGTGGCCACCAAGCGTTTC
 ATTCCCCTCATGACAAGCTGTCATCCGTATCTGTTGGGACCAGTTTCTGGTGCATCAGTCAGAGACGAC
 TGAAGTCCTCTGTGAGGGAATAAAAAAGTGGTGAATGTTCTGGCCTGTGAAAAATCCTCAAAAAGTCC
 TATGAGGCTGCGCTGCTCCCTTTGTACATGGAAGGAGTTTTGTAGAGGTGATTCATGATAAGAAACAGT
 ACCCGATTTCTGAGCTCTGTAAACAGTTCGGTTTGCCTTCAATGTGAAGGTGTCTGTCAAGGATCTTTC
 CATTGAAGAGGACGTGTTGGCTGCCACACCAGGACTGCAGTTGGAGGAGGACATTACAGACTCTTACCTA
 CTCATAAGTGACTTTGCCAACCCACGGAGTGCTGGGAAATTCCTGTGGGCCGCTTGAATATGACTGTTT
 AGTTAGTTAGTAATTTCTAGGGATGCAGAACCATTTCTAGTCAGGACTCTGGTAGAAGAGATCACTGA
 AGAGCAATATTACATGATGCGGAGATATGAAAGCTCAGCCTCACATCCCCACCTCGCCCTCCGAAACAC
 CCCTCAGTAGAGGAAACAAAGTTAACCTGCTAACCTTAGCAGAAGAAAGGACGGTAGACCTGCCAAGT
 CTCCCAAGGCTGGAGTGCAATGGCGTGATCTGGCTCGCTGCAACCTCTGCCTCCCGGGTTCAAGCAATT
 CTCTGCCTCAGCCTCCACGTAGCTGGGATTACAGGCACCCCCACCACGTCCAGCGTCATCACGTAGAC
 ATAACCAAGAAATTCACCCAAATCAAGCTGGCCTGGATTCAAAAGTACTGATTGGTAGTCAGAATGATT
 TGGTGGATGAAGAGAAAGAAAGGAGCAACCGTGGGGCCACAGCAATAGCAGAAACATTCAAAAATGAAAA
 ACATCAAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228531 representing NM_001164685
 Red=Cloning site Green=Tags(s)

MALSLEEFVHSLDLRTLPRVLEIQAGIYLEGSIYEMFGNECCFSTGEVIKITGLKVKKIIAEICEQIEGC
 ESLQPFELPMNFPGLFKIVADKTPYLTMEETRTIHIGPSRLGHPCFYHQDKIKLENLIIKQGEQIMLNS
 VEEIDGIMVSCAVARNHQTHSFNLPLSQEGEFYECEDERIYTLKEIVWKIPKNRTRTVNLTDFSNKWD
 STNPFPKDFYGTILKPVYEQVGMKFRKDIIRILPSLDVEVKDITDSYDANWFLQLLSTEDLFEMTSKE
 FPIVTEVIEAPEGNHLPQSILQPGKTIVIHKKYQASRILASEIRSNFPKRHFLIPTSYKGKFKRRPREFP
 TAYDLEIAKSEKEPLHVATKAFHSPHDKLSSVSVGDQFLVHQSETTEVLCEGIKKVVNVLACEKILKKS
 YEAALLPLYMEGGFVEVIHDKKQYPISELCKQFRLPFNVKVSVRDLSEEDVLAATPGLQLEEDITDSYL
 LISDFANPTECWEIPVGRLNMTVQLVSNFSRDAEPFLVRTLVEEITEEQYMMRRYESSASHPPPRPKH
 PSVEETKLTLTAEERTVDLPKSPKAGVQWRDLGSLQPLPPGFKQFSASASHVAGITGTPHHVQRHHVD
 ITKKLHPNQAGLDSKVLIGSQNDLVDEEKERSNRGATAIAETFKNEKHQK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

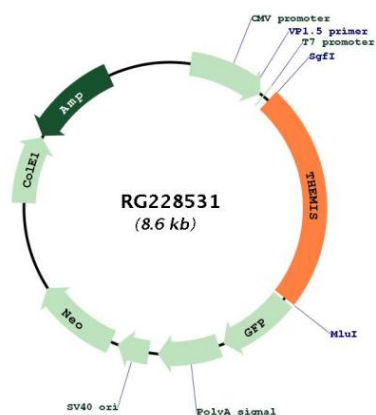


ACCN: NM_001164685

ORF Size: 2040 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001164685.1 , NP_001158157.1
RefSeq Size:	3983 bp
RefSeq ORF:	2043 bp
Locus ID:	387357
UniProt ID:	Q8N1K5
Cytogenetics:	6q22.33
Gene Summary:	This gene encodes a protein that plays a regulatory role in both positive and negative T-cell selection during late thymocyte development. The protein functions through T-cell antigen receptor signaling, and is necessary for proper lineage commitment and maturation of T-cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG228531