

Product datasheet for **MR223329**

Themis (NM_178666) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Themis (NM_178666) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Themis
Synonyms:	E430004N04Rik; G; Gasp; Spot; thylex; Ts; Tsepa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR223329 representing NM_178666
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTTTATCTCTGGAAGAATTTGTCTACTCCCTTGACCTGAGGACCCTCCCCAGGGTCTAGAAATCC
 AGTCAGGCATCTACTTTGAAGGGTCTGTTTATGAGATGTTTGGCAATGAATGCTGTCTGTCAACAGGAGA
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 TCAGTTGAAGAGATTAATGGAGAAACGCTGGTGAATTGTGGTGTGGTAAGGAATCATCAGAGCCACTCAT
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 CAGCCGCAAGCACCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223329 representing NM_178666
 Red=Cloning site Green=Tags(s)

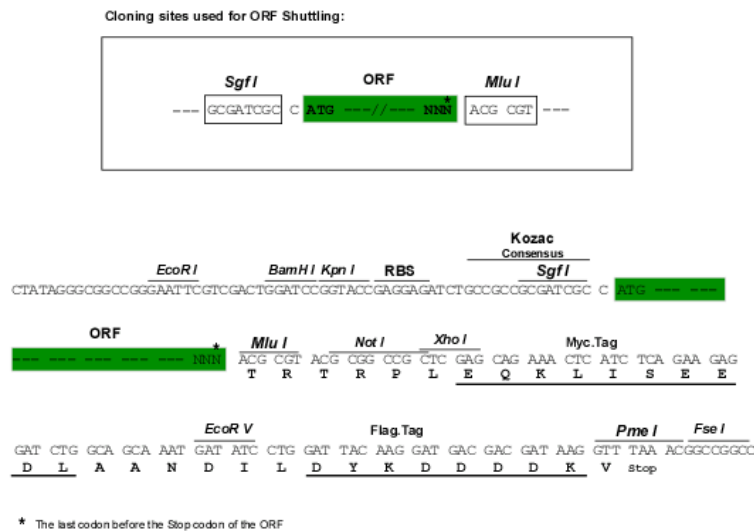
MALSLEEFVYSLDLRTLPRVLEIQSGIYFEGSVYEMFGNECCLSTGEVIKITGLKIKKMMAEICEGAIGG
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 PTAYDLQIAKSRKETLHVATKAFHTLHKELSPVSGDQFLVHHSETTEVVFEGTRKVNVLTCCKVLNKT
 REDAQLPLYMEGGFVEVIHDKKQYQISELCTQCFWPNVKVAVRDL SIKDDILAATPGLQEEDITDSYL
 LISDFANPEECWEIPMSRLNMTVRLVNGSSL PADAGLLQVRSFVEEITEEQYMMRRYESSLSHPPPRPP
 KHPSAEEMKLTLLSLAEERTINLPKSLKSHHVDPRPKLP SDESGQDSRAPVGFQNDVADVERQSKKHGPL
 QPQAPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9064_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178666

ORF Size: 1908 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178666.6](#), [NP_848781.1](#)

RefSeq Size: 5085 bp

RefSeq ORF: 1911 bp

Locus ID: 210757

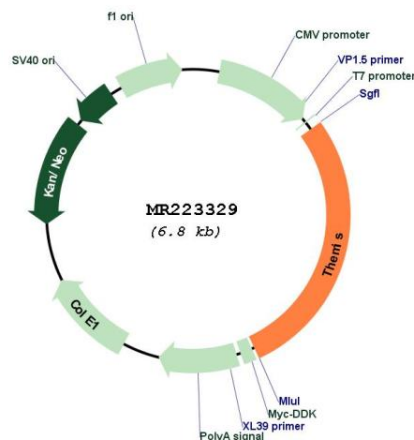
UniProt ID: [Q8BGW0](#)

Cytogenetics: 10 A4

MW: 72.8 kDa

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, Mar 2015]

Product images:



Circular map for MR223329