

Product datasheet for **RR216804**

Thumpd3 (NM_001170546) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Thumpd3 (NM_001170546) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thumpd3
Synonyms:	RGD1560852
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216804 representing NM_001170546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGACACTCAAGAAGCTACAGAGAACACTTGGATATGAACCTTCATGAGAACAAGAAGCCGGTGC
 CCTTGATAGAAAGTGGCATCAGAAGTGAGTCTGAGCATCTCCAAGTCACCATTGGAGCCACTGTACCTAC
 TGGGTTTGAGCAAACAGCTGCAGATGAAGTGAGAGAGAAATTGAAGTCATCCTGCAGAATCAGCAAAGAC
 CGGGGCAAGATATATTTTGATATTGCAGTGGAAAGTCTGGCTCAGGTTTCATTGTCTGAGATCAGTGGATA
 ACTTGTGTGGTTGTTGAGGAGTTTAAAGATTACCAGTTCAAAGCTACAAAGGAAGAAGTTCTAAGAGA
 CTTTGAAGAACTGGTGGAAAACCCCATGGTCCGACCCTTTAAAAGTCTGGCAAATTAACACCCTTTC
 AAGAAGAAGAAGGCAAAGCGCAGAAAGGCCAATCAGAGTCAGGCAGAGAGAAGGCCGACTGTGGACAGG
 GCGACAATGCCGGTGAGAAGGACGGTAAGAAGAAGCTTCCAGTGGTCCGCGAGATCCACATATCTTAGA
 CTACTATGAAAAACCCAGCCATCAAAGAAGAGATATCAACCTTAATAGGGGAAGTCTTGGCATCTGGCGAA
 GATGAAAAACGGTCAAAGCTTAAGAGAAGAAGCTGAACCGCAAGTCAGAAAGTTTCAGAGTCACCTGCAACA
 GAGCAGGAGAGAAGCATTGCTTTACATCCAACGAGGCTGCCAGAGGTTTTGGAGGTGCTGTTCAAGAGTA
 CTTTAAGTGGAAGGCTGATATGACCAACTTTGACGTAGAGGTTCTCCTGAACATCCACAATAATGAAGTC
 ATTGTTGCTATTGCAGTACAGAGGAGAGTCTCCATCGCAGAAATATTACACATTTTGGACCTACAACCT
 TTAGGTCAACTCTTGCCTATGGGATGCTCAGGCTCTGTGAACCTAAACCTACTGATGTAATTGTAGATCC
 AATGTGTGGAACAGGGGCAATACCAATAGAGGGGGCTACTGAGTGGTCTCACTGTTACCATATTGCTGGG
 GACAACAACCCACTGGCAGTGAACAGAGCAGCAAATAACATCTCATCTCTATTGACTAAGAGCCAGATTA
 AAGATGGAAAAACATCCTGGGGTTTGCCATTGATGCTGTTTCAGTGGGATATCTGCAACCTCCCTCTGGC
 AACTGCTTCTGTGGATATTATTGTAACAGACATGCCATTTGAAAAAAGGATGGGCTCCAAAAAGAGAAAT
 TGGAACTCTATCCAGCTTGCCTTCGGGAAATGAGCCGTGCTGTAGACCAAGGACAGGTAGAGCTGTAC
 TGCTTACTCAGGACAAGAAATGTTTTACCAAGGCATTATCTGGAATGGGACATGTGTGGCGAAAGGTCCA
 TACAGTCTGGGTGAACATCGGGGCCTTATGCTGCAGTTTATCTTCTAAAACGCACTCCTCAAGACTTT
 GTTCATCCTTCAGATCAAGATGGAGGAAAAGACCCTCCTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216804 representing NM_001170546
 Red=Cloning site Green=Tags(s)

MSDTQEATREHLDMLHLENKPVPLIESGIRSESEHLQVTIGATVPTGFEQTADEVREKLKSSCRISKD
 RGKIYFDIAVESLAQVHCLRSVDNLFVVVEEFKDYQFKATKEEVLRFEEELAGKLPWSDPLKVWQINTTF
 KKKKAKRRKANQSAGREKADCGQDNAGEKDGGKKLASGAADPHILDYENPAIKEEISTLIGEVLASGE
 DENGQSLREEAEPVQKFRVTCNRAGEKHCFTSNEAARGFGGAVQYFKWKADMTNFDVEVLLNIHNNEV
 IVAIALTEESLHRRNITHFGPTTLRSTLAYGMLRLCEPKPTDVIIVDPMCMTGAIPIEGATEWSHCYHIAG
 DNNPLAVNRAANNISSLLTKSQIKDGKTSWGLPIDAVQWDICNLPLRTASVDIIVTDMPPFGKRMGSKKRN
 WNLYPACLREMSRVCRPRTGRAVLLTQDKKCFKALSGMGHVWRKVHTVWVNIIGGLHAAYVLLK RTPQDF
 VHPSDQDGGKDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001170546

ORF Size: 1512 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.

RefSeq: [NM_001170546.1](#), [NP_001164017.1](#)

RefSeq Size: 2002 bp

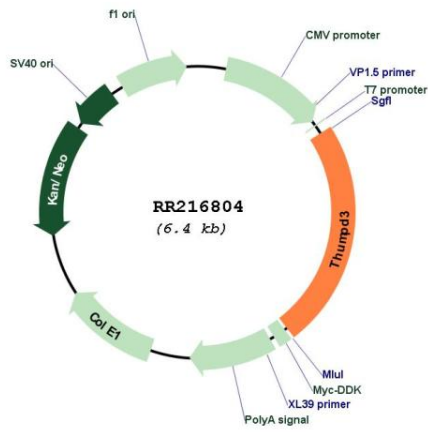
RefSeq ORF: 1515 bp

Locus ID: 500288

Cytogenetics: 4q42

MW: 56.4 kDa

Product images:



Circular map for RR216804