

Product datasheet for RR216525

Mcat (NM_001191788) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Mcat (NM_001191788) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Mcat
 Synonyms: RGD1306698
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR216525 representing NM_001191788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGCCCGGTAGCTCGGGCCTGTTGGCCTGGGGCTCCTGGGGCCGCCGCCCGCCTCGAGCCTTC
 GGGAGCCTCCACCGGATGCCGTGGACGTGGCGGGCTGCTACGGGACTCCAGTGTGACCGAGGAGGGAGT
 CCAGGAGCGGTGGCGCGCGGCCGCCCTCGCGTCTCCGTTCTGCTCTCCCCGGTCAAGGCAGCCAG
 GCGGTCCGCATGGGTGGCGCCCTGCTCCACTTCCCGGTGTACGGCAGCTCTACGAGGCCGCGCACCGAG
 TGCTTGGCTACGATCTGCTGGAAGTGTGCTGCGGGACCTCAGGAGGATCTGGACCGCACAGTGCATTG
 CCAACCCGCTGTCTTCGTGGCTTCACTGGCCGCGTGGAGAAGCTACATCACCTGCAACCGCGGTATC
 GAGAACTGTGTTGCTGCCGCTGGATTACAGCGTGGGGGAGTTTGCAGCCCTTGTTGTTGCTGGAGCCATGG
 AGTTTGGGAAGGTCTGTATGCAGTGAAGTCCGAGCTGAAGCCATGCAAGAAGCGTCTGAAGCCGTTCC
 CAGTGGGATGCTGTCTGCTTGGCCAGCGTCAGTCCAATTTCTCCTTGGCTGCTTGAAGCCAGGAG
 CACTGCAGGCTTTGGGTATAGAGAACCGGTGTGCCAGGTGTCCAATACCTCTTCTGACTGCAGGG
 TCATCTCAGGACACCTTGAGGCCCTTCACTTCTCCGGAAGAATCCGCTAAGTTCACTTCAGGCGCAC
 CAAGATGCTACCTGTAAGTGGTGGCTCCATACCTGCCTCATGGAGCCAGCTGTGGAGCCTCTGATGAAA
 ACTTAGGCTCAATCAACATCAAGAAGCCACTGGTTGCCGTCATTCCAACGTCAGTGGGCATAAATACA
 CACATCCACAACACATCCGAAAGCTGCTAGGGCAGCAGGTGGTGTACCCAGTGAAGTGGGAACAGACGAT
 GCACTGTATATACGAGCGGAAGAAGGGCATGGAGTTCCCGCAGCACCTTTGAGGTGGGCCCGGGCAGCAG
 CTGGGGAGTATCCTCAAGTGTGCAACAGGCAGGCATGGAAGTCTACAGCCACGTGGATGTGATGCAGA
 CCTTTTGGACCCTGACCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216525 representing NM_001191788
 Red=Cloning site Green=Tags(s)

MNARVARACWAWGSWGRRPASSLREPPDAVDVAGLLRDSSVTEEGVQEAVARRPPSRCSVLLFPGQGSQ
 AVGMGGGLLHFPRVRL YEAHRVLYDLELCLRGPQEDLDRTVHCQPAVFVASLAAVEKLHHLQPAVI
 ENCVAAGFSVGEFAALVFAGAMEFAEGLYAVKVRAEAMQEASEAVPSGMLSVLQGRQSNFSFACLEAQE
 HCRSLGIENPVCQVSNYLPDRCRVISGHLEALQFLRKNSAKFHRRTKMLPVSGGFHTCLMEPAVEPLMK
 TLGSINIKKPLVAVHSNVSGHKYTHPQHIRKLLGQQVVSVPVKEQTMHCIYERKKGMFEPSTFEVGPQQ
 LGSILKCCNRQAWKSYSHVDVMQTLDDPDH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001191788

ORF Size: 1140 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_001191788.1, NP_001178717.1

RefSeq Size: 1900 bp

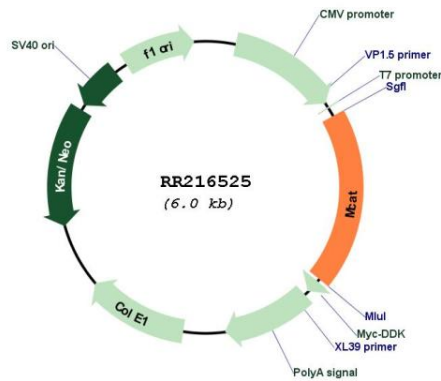
RefSeq ORF: 1143 bp

Locus ID: 315173

Cytogenetics: 7q34

MW: 41.8 kDa

Product images:



Circular map for RR216525