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Product datasheet for RR213490

Aadat (NM_017193) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aadat (NM_017193) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aadat
Synonyms:	Kat2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213490 representing NM_017193 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAATTACTCAAGGTTCCTCACTGCAACGAGCCTGGCCAGAAAGACATCCCCTATCAGAGCTACAGTGG AGATAATGAGTAGAGCACCCAAAGACATCATCTCCCTGGCTCCTGGATCTCCGAACCCGAAAGTGTTCCC CTTTAAGTCAGCTGTCTTCACTGTGGAGAACGGAAGCACCATCCGGTTTGAAGGAGAGATGTTTCAAAGG GCCCTCCAATATTCCTCAAGCTATGGAATTCCAGAACTTCTGTCCTGGCTAAAACAGTTGCAAATAAAAT TGCATAATCCTCCGACTGTCAACTACTCACCCAACGAAGGACAGATGGACCTCTGCATCACATCTGGCTG TCAAGACGGTCTCTGTAAGGTGTTTGAAATGCTCATCAATCCTGGAGACACTGTTCTGGTCAATGAACCA CTGTATTCAGGAGCCCTTTTTGCAATGAAACCACTGGGCTGCAATTTTATTAGTGTCCCCAGTGATGACT GTGGGATTATTCCAGAGGGTCTCAAAAAAGTACTTTCCCAGTGGAAACCAGAAGATTCCAAGGATCCCAC AAAAAGGACTCCAAAATTTCTGTATACTATTCCGAATGGCAACAACCCTACAGGCAACTCGTTGACTGGT GACCGCAAGAAAGAAATCTATGAGCTTGCAAGAAAATATGACTTCCTCATAATAGAAGACGATCCTTACT ATTTTCTCCAGTTCACCAAGCCTTGGGAACCAACCTTTCTCTCCATGGATGTTGATGGGAGAGTTATCAG AGCTGACTCCCTTTCAAAAGTTATCTCCTCAGGGCTGAGAGTGGGGTTTATAACTGGCCCCAAGTCCTTG ATACAGAGGATTGTTCTCCACACACAAATCTCATCACTGCATCCCTGTACTTTATCACAGCTCATGATAT CGGAGCTTCTATACCAGTGGGGAGAAGAGGGTTTCCTGGCCCATGTTGACAGAGCTATTGATTTCTACAA GAACCAGAGGGATTTTATATTGGCAGCTGCAGACAAGTGGTTACGTGGTTTGGCAGAGTGGCATGTTCCC AAAGCTGGCATGTTTCTATGGATTAAAGTTAACGGAATCTCTGATGCAAAAAAACTAATTGAAGAAAAGG CTATTGAAAGAGAGATCTTGTTAGTTCCTGGAAATAGTTTCTTCGTCGATAATTCAGCCCCCTCCTCCTT CTTCAGAGCATCCTTCTCTCAGGTTACTCCAGCGCAGATGGACTTAGTCTTCCAGAGATTGGCCCAACTC ATAAAAGACGTTTCA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

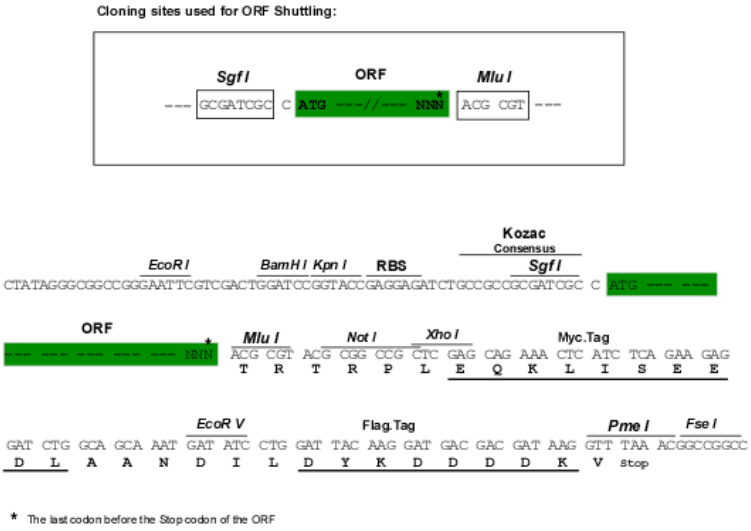
>RR213490 representing NM_017193
Red=Cloning site Green=Tags(s)

MNYSRFLTATSLARKTSPIRATVEIMSRAPKDIISLAPGSPNPKVFPFKSAVFTVENGSTIRFEGEMFQR
ALQYSSSYGIPELLSWLKQLQIKLHNPPTVNYSPNEGQMDLCITSGCQDGLCKVFEMLINPGDTVLVNEP
LYSGALFAMKPLGCNFISVPSDDCGIIPEGLKKVLSQWKPEDSKDPTKRTPKFLYTIPNGNNPTGNSLTG
DRKKEIYELARKYDFLIIEDDPYYFLQFTKPWEPTFLSMDVDGRVIRADSLSKVISSGLRVGFITGPKSL
IQRIVLHTQISSLHPCTLSQLMISELLYQWGEEGFLAHVDRAIDFYKNQRDFILAAADKWLRGLAEWHVP
KAGMFLWIKVNGISDAKKLIEEKAIEREILLVPGNSFFVDNSAPSSFFRASFSQVTPAQMDLVFQRLAQL
IKDVS

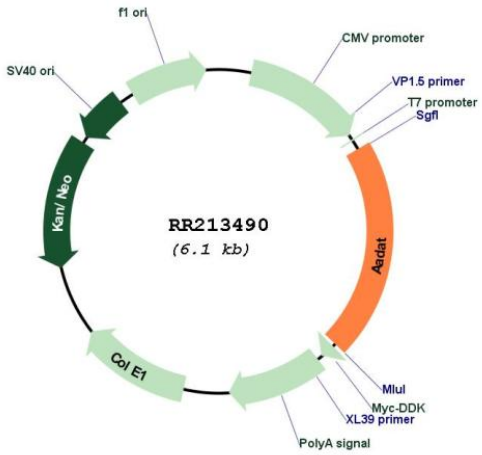
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017193

ORF Size:	1275 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_017193.1, NP_058889.1
RefSeq Size:	1828 bp
RefSeq ORF:	1278 bp
Locus ID:	29416
UniProt ID:	Q64602
Cytogenetics:	16p12
MW:	47.8 kDa
Gene Summary:	endogenous modulator of glutamatergic neurotransmission with kynurenine aminotransferase (KAT) activity [RGD, Feb 2006]