

Product datasheet for **RR211697**

Amy1a (NM_001010970) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amy1a (NM_001010970) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amy1a
Synonyms:	Amy1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR211697 representing NM_001010970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAGAATACTGCCAACATCATAGCAGAATGAAATTCTTCCTGCTGCTTCCCTCATTGGGCTCTGCT
 GGGCCCAATATGACCCACATACTTTTTATGGACGGTCTTCTATTGTCCATTTGTTTCGAGTGGCGCTGGGT
 TGATATTGCTAAGGAGTGTGAGCGATATTTAGCTCCTAATGGATTTGGAGGCGTGCAAGTTTCTCCACCC
 AATGAAAAATTGTGGTCAACAGTCCTTTTAGACCATGGTGGAAAGATATCAACCAATTAGCTACAAAA
 TATGCTCCAGGTCTGAAATGAGGATGAATTCAGAGACATGGTGAACAGATGCAACAACGTTGGTGTCCG
 TATTTATGTGGATGCGGTCATTAATCACATGTGTGGGTTGGGGCTGAAGCTGGACAAAGCAGTACATGC
 GGAAGTTATTTCAACCAATAACAGGGACTTTCCTGGAGTTCGATTTCTGGTTTCGACTTTAATGATG
 GAAATGTAAACTGGAAGTGGAGGCATTGAGAACTACAATGATGCTGCTCAGGTCAGAGATTGCTGCT
 GTCTGGCCTTCTGGATCTTGCACTTGAGAAAGATTATGTTTCGACCAAGTGGCTGATTACATGAACCAT
 CTATTGATATTGGTGTAGCAGGGTTCAGACTTGATGCTTCTAAACACATGTGGCCTGGAGACATAAAGG
 CAGTTTTGGACAACTACATAATCTAAATACAAAAATGGTTCCTCGAAGGAAGCAAACCTTTCATTATCA
 AGAGGTCAATGATCTGGGTGGTGAAGCAGTGTCAAGTAATGAGTATTTGGAAATGGCCGTGTGACAGAA
 TTCAAATATGGAGCAAACTGGGCAAAGTTTTCGCAAGTGGGATGGAGAAAAGATGGCCTACTTAAAGA
 ACTGGGGAGAAGGTTGGGGTTTCATGCCTTCTGACAGAGCCCTTGCTTTTGTGGACAACCATGACAACCA
 GCGAGGACATGGTGTGGAGGATCATCCATCCTGACTTCTGGGATGCTCGACTCTATAAAATGGCTGTC
 GGATTTATGTTGGCTCATCCTTATGGTTTCACTCGGGTAATGTCAAGTTTCCATTGGCCAAGATATTTCCG
 AGAATGGCAAAGATGTCAATGACTGGGTTGGACCACCTAATAACAATGGAGCAACCAAGAGTGAACCAT
 TAACTCAGACAGCACTTGTGGCAATGACTGGGTCTGTGAACATCGATGGCGTCAAATAAGGAACATGGTT
 GCCTTCAGGAATGTGGTCAATGGTCAGCCTTTTGCAAACTGGTGGGATAATGGCAGCAACCAAGTAGCTT
 TTGGCAGAGGAAACAAAGGCTTCATTGTCTTAAACAATGATGACTGGGACTTGTCAACAACCTCTACAGAC
 TGGTCTTCTGCTGGCACATACTGTGATGCTATTTCTGGAGACAAAGTCGATGGCAATTGCACTGGAATA
 AAAGTCTATGTTGGCAGTATGGCAATGCTTACTTCTCTATTAGTAACTCTGCTGAAGACCCATTTCATTG
 CAATCCATGTAGAGTCAAAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211697 representing NM_001010970
 Red=Cloning site Green=Tags(s)

MREYQCQHHSRMKFFLLLSLIGLCWAQYDPHTFYGRSSIVHLFEWRWVDIAKECERYLAPNGFGGVQVSP
 NENIVVNSPFRPWERYQPI SYKICSRSGNEDEFRDMVNRNNGVRIYVDAVINHMCVGAEGQSSTC
 GSYFNPNNRDFPGVPYSGFDNDGKCKTSGGSIENYNDAAQVRDRLSGLLDLALAEKDYVRTKVADYMNH
 LIDIGVAGFRLDASKHMWPGDIKAVLDKLNHLNWKWFSEGSKPFYQEVIDLGGEAVSSNEYFNGRVT
 FKYGAKLGKVLKWDGEMAYLKNWEGWGFMPDRALVFDNHDNQRGHGAGGSSILTFWDARLYKMAV
 GFMLAHPYGFTRVMSSFHWPRYFENGKDVNDWVGPPNNGATKEVTINSDSTCGNDWVCEHRWRQIRNMV
 AFRNVVNGQPFANWWDNGSNQVAFGRGNKGFIVFNDDWDLSTTLQGLPAGTYCDVISGDKVDGNGCTGI
 KVVYVSDGNAYFSISNSAEDPFI A IHVESKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001010970

ORF Size: 1563 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_001010970.1](#), [NP_001010970.1](#)

RefSeq Size: 1639 bp

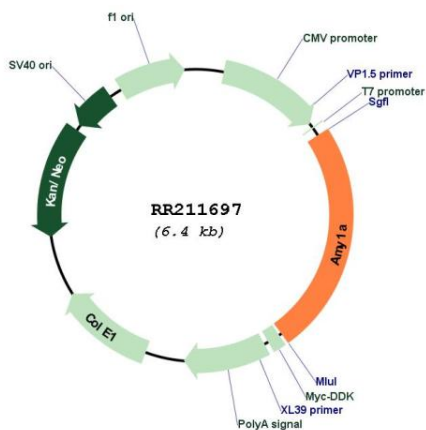
RefSeq ORF: 1566 bp

Locus ID: 24203

Cytogenetics: 2q41

MW: 58.8 kDa

Product images:



Circular map for RR211697