

## Product datasheet for **MR215408**

### **Amy2a4 (NM\_001160150) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Amy2a4 (NM_001160150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amy2a4
Synonyms:	ENSMUSG00000074267; mAmy2-3; OTTMUSG00000022433
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215408 representing NM\_001160150  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTTCGTTCTGCTGCTTCCCTCATTGGGTTCTGCTGGGCTCAATATGACCCACATACTTCAGATG  
 GGAGGACTGCTATTGTCCACCTGTTGAGTGGCGCTGGGTTGATATTGCCAAGGAATGTGAGCGATACTT  
 AGCTCCTAAGGGATTTGGAGGGGTGACAGTCTCTCCACCAATGAAAACGTTGTAGTTCATAACCCATCA  
 AGACCTTGGTGGGAAAGATACCAACCAATCAGCTATAAAATCTGCACAAGGTCTGGAAATGAAGATGAAT  
 TCAGAGACATGGTGACAAGGTGCAACAATGTTGGTGTCCGATTTATGTGGATGCTGTCATTAACCCAT  
 GTGTGGCGCAGGCAATCCTGCAGGAACAAGCAGTACCTGTGGAAGTTACCTCAATCCAAATAACAGGGAA  
 TTCCCAGCAGTTCATACTCTGCTTGGGACTTTAACGATAATAAATGTAATGGAGAAATTGATAACTACA  
 ATGATGCTTATCAGGTCAGAAATGTCGCTGACTGGCCTTCTGGATCTTGCACTTGAGAAAGATTATGT  
 TCGTACCAAGGTGGCTGACTATATGAACCATCTCATTGACATTGGAGTAGCAGGGTTCAGACTTGATGCT  
 GCTAAGCACATGTGGCCTGGAGACATAAAGGCAGTTTTGGACAACTGCATAATCTCAATACAAAATGGT  
 TCTCCAAGGAAGCAGACCTTTCATTTTCCAAGAGGTCATTGATCTGGTGGTGAGGCAATTAAGGTAG  
 TGAGTACTTTGGAAATGGCCGTGTGACAGAATCAAGTATGGTGCAAACTTGGCACAGTTATCCGCAAG  
 TGGAAATGGCGAGAAGATGTCCTATTTAAGAAGTGGGAGAAGGTTGGGTTTGGTGCCTTCTGACAGAG  
 CCCTTGTGTTTGGGACAACCATGATAATCAGCGAGGACATGGTCTGGAGGATCATCCATCCTGACATT  
 CTGGGATGCTAGAATGTATAAAATGGCTGTCCGATTTATGTTGGCTCATCCTTATGGATTCACAAGATG  
 ATGTCAAGTTACGTTGGAATAGAAATTTCCAGAATGGAAAAGATCAGAATGACTGGATTGGACCACCCA  
 ATACAATGGAGTAACAAAAGAAGTGACCATTAATGCAGACACTACTTGTGGCAATGACTGGGCTGTGA  
 ACACAGATGGCGTCAAATCAGGAACATGGTTCCTTTCAGGAATGTGGTCAATGGTCAGCCTTTTTCAAAC  
 TGGTGGGATAATAACAGCAACCAAGTAGCTTTTAGCAGAGGAAACAGAGGATTATTGTCTTTAAACAATG  
 ATGACTGGGCTTTGTGAGCCACTTTACAGACTGGTCTTCTGCTGGCACATACTGTGATGTCATCTCTGG  
 AGATAAGGTGATGGCAATTGCACTGGACTTAGAGTGAATGTTGGCAGTGTGGCAAAGCTCACTTTTCC  
 ATTAGTAACCTGCTGAGGACCCATTTATTGCAATCCATGCTGACTCAAATTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215408 representing NM\_001160150  
 Red=Cloning site Green=Tags(s)

MKFLVLLLSLIGFCWAQYDPHTSDGRTAIVHLFEWRWVDIAKECERYLAPKGGVQVSPNENNVVHNPS  
 RPWWERYQPISYKICTRSGNEDEFDMVTRCANNVGVRIYVDAVINHMCGAGNPAGTSSTCGSYLNPNNRE  
 FPAVPYSAWDFNDKNCNGEIDNYNDAYQVRNCRLTGLLDLALAKDYVRTKVADYMNHLIDIGVAGFRLDA  
 AKHMWPGDIKAVLDKLNHLNWKFSQGSRPFIQEVIDLGGEAIKGSEYFGNRRVTEFKYGAKLGTVIRK  
 WNGEKMSYLKNWGEWGLVPSDRALVFDNHDNRGHGAGGSSILTFWDARMYKMAVGFMLAHPYGFTRV  
 MSSYRWRNRFQNGKDQNDWIGPPNNGVTKVETINADTTCGNDWVCEHRWRQIRNMVAFRNVVNGQPFNS  
 WWDNNSNQVAFSRGNRGIVFNNDWALSATLQTGLPAGTYCDVVISGDKVDGNGCTGLRVNVGSDGKAHFS  
 ISNSAEDPFIAIHADSKL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



ACCN: NM\_001160150

ORF Size: 1524 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\\_001160150.1](#), [NP\\_001153622.1](#)

RefSeq Size: 3723 bp

RefSeq ORF: 1527 bp

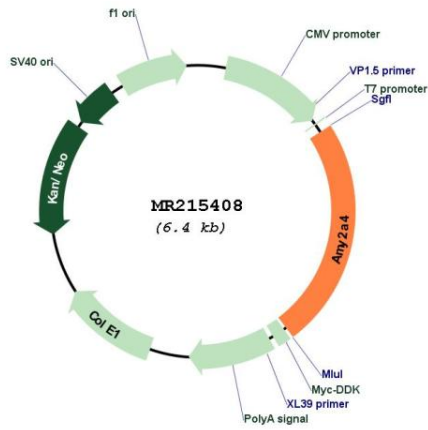
Locus ID: 100043684

UniProt ID: [P00688](#)

Cytogenetics: 3

MW: 57.3 kDa

Product images:



Circular map for MR215408