

Product datasheet for **MG205064**

Anxa2 (NM_007585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anxa2 (NM_007585) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Anxa2
Synonyms:	AW215814; Cal1h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205064 representing NM_007585 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTACTGTCCACGAAATCCTGTGCAAGCTCAGCCTGGAGGGTGATCATTCTACACCCCAAGTGCCT
 ACGGGTCAGTCAAACCTACACCAACTTCGATGCTGAGAGGGATGCTCTGAACATTGAGACAGCAGTCAA
 GACCAAAGGAGTGGATGAGGTCAACATCCTGACAAACCGCAGCAATGTGCAGAGGCAGGAC
 ATTGCCTTCGCCTATCAGAGAAGGACAAAAAGGAGCTCCCGTCAGCGCTGAAGTCAGCCTTATCTGGCC
 ACCTGGAGACGGTGATTTTGGGCCTATTGAAGACACCTGCCAGTATGATGCTTCGGAACATAAAGCTTC
 CATGAAGGGCCTGGGGACTGACGAGGACTCCCTCATTGAGATCATCTGCTCCCGAACCAACCAGGAGCTG
 CAAGAGATCAACAGAGTGTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATCATCTCTGACACAT
 CTGGAGACTTCCGAAAGCTGATGGTCGCCCTTGCAAAGGGCAGACGAGCAGAGGATGGCTCAGTTATTGA
 CTACGAGCTGATTGACCAGGATGCCCGGGAGCTCTATGATGCCGGGGTGAAGAGGAAAGGAACCGACGTC
 CCCAAGTGGATCAGCATCATGACTGAGCGCAGTGTGTGCCACCTCCAGAAAGTGTTCGAAAGGTACAAGA
 GCTACAGCCCTTATGACATGCTGGAGAGCATCAAGAAAGAGGTCAAAGGGGACCTGGAGAACGCCTTCCT
 GAACCTGGTCCAGTGCATCCAGAACAAGCCCTGTACTTCGCTGACCGGCTGTACGACTCCATGAAGGGC
 AAGGGGACTCGAGACAAGGTCTGATTAGAATCATGGTCTCTCGCAGTGAAGTGGACATGCTGAAAATCA
 GATCTGAATTCAGAGGAAATATGGCAAGTCCCTGTACTACTACATCCAGCAAGACACCAAGGGTGACTA
 CCAGAAGGCACTGCTGTACCTGTGTGGTGGGGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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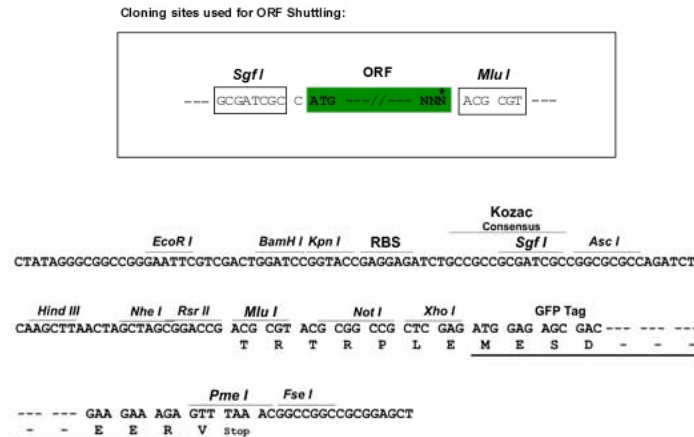
Protein Sequence: >MG205064 representing NM_007585
 Red=Cloning site Green=Tags(s)

MSTVHEILCKLSLEGDHSTPPSAYGSVKPYTNFDAERDALNIETAVKTKGVDEVTIVNILTNRSNVQRQD
 IAFAYQRRTKKELPSALKSALSGHLETVILGLLKTPAQYDASELKASKMGLGTDEDSLIEIICSRNQEL
 QEINRVYKEMYKTDLEKDIISDTSGDFRKLMLVALAKGRRADGSGVIDYELIDQDARELYDAGVKRKGTDV
 PKWISIMTERSVCHLQKVFERYSYSPYDMLSEIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKG
 KGTRDKVLIRIMYSRSEVDMLKIRSEFKRKYGKSLYYYIQQDTKGDYQKALLYLCGGDD

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007585

ORF Size: 1017 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007585.2](#)

RefSeq Size: 1374 bp

RefSeq ORF: 1020 bp

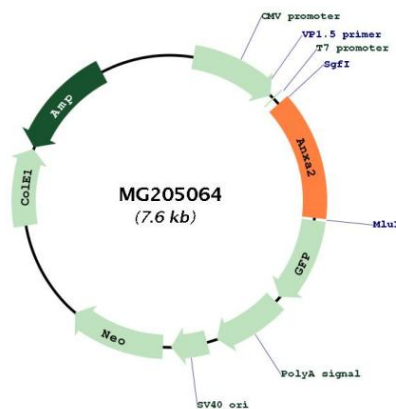
Locus ID: 12306

UniProt ID: [P07356](#)

Cytogenetics: 9 38.58 cM

Gene Summary: Calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. May be involved in heat-stress response (By similarity). Inhibits PCSK9-enhanced LDLR degradation, probably reduces PCSK9 protein levels via a translational mechanism but also competes with LDLR for binding with PCSK9 (PubMed:22848640).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205064