

Product datasheet for MR205064

Anxa2 (NM_007585) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anxa2 (NM_007585) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anxa2
Synonyms:	AW215814; Cal1h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205064 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTACTGTCCACGAAATCCTGTGCAAGCTCAGCCTGGAGGGTGATCATTCTACACCCCAAGTGCC
ACGGGTCAGTCAAACCTACACCAACTTCGATGCTGAGAGGGATGCTCTGAACATTGAGACAGCAGTCAA
GACCAAAGGAGTGGATGAGGTCACCATTGTCAACATCCTGACAAACCGCAGCAATGTGCAGAGGCAGGAC
ATTGCCTTCGCCTATCAGAGAAGGACAAAAAGGAGCTCCCGTCAGCGCTGAAGTCAGCCTTATCTGGCC
ACCTGGAGACGGTGATTTTGGCCCTATTGAAGACACCTGCCAGTATGATGCTTCGGAATAAAAGCTTC
CATGAAGGGCCTGGGACTGACGAGGACTCCCTCATTGAGATCATCTGCTCCCGAACCAACCAGGAGCTG
CAAGAGATCAACAGAGTGTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATCATCTCTGACACAT
CTGGAGACTTCCGAAAGCTGATGGTCGCCCTTGCAAAGGGCAGACGAGCAGAGGATGGCTCAGTTATTGA
CTACGAGCTGATTGACCAGGATGCCCGGAGCTCTATGATGCCGGGGTGAAGAGGAAAGGAACCGACGTC
CCCAAGTGGATCAGCATCATGACTGAGCGCAGTGTGTGCCACCTCCAGAAAGTGTTCGAAAGGTACAAGA
GCTACAGCCCTTATGACATGCTGGAGAGCATCAAGAAAGAGGTCAAAGGGGACCTGGAGAACGCCTTCT
GAACCTGGTCCAGTGCATCCAGAACAAGCCCTGTACTTCGCTGACCGGCTGTACGACTCCATGAAGGGC
AAGGGGACTCGAGACAAGGTCTGATTAGAATCATGGTCTCTCGCAGTGAAGTGGACATGCTGAAAATCA
GATCTGAATTCAGAGGAAATATGGCAAGTCCCTGTACTACTACATCCAGCAAGACACCAAGGGTGACTA
CCAGAAGGCACTGCTGTACCTGTGTGGTGGGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205064 protein sequence
Red=Cloning site Green=Tags(s)

MSTVHEILCKLSLEGDHSTPPSAYGSKPYTNFDAERDALNIETAVKTKGVDEVTIVNIL TNRSNVQRQD
 IAFAYQRRTKKELPSALKSALSGHLETVILGLLKTPAQYDASELKASMKGLGTDEDLSLIEIICSRNQL
 QEINRVYKEMYKTDLEKDIISDTSGDFRKL MVALAKGRRADGSDVIDYELIDQDARELYDAGVKRKGTDV
 PKWISIMTERSCHLQKVFERYSYSPYDMLSEIKKEVKGDLEN AFLNLVQCIQNKPLYFADRLYDSMKG
 KGTRDKVLIIRIMVSRSEVDMLKIRSEFKRKYGKSLYYYYIQQDTKGDYQKALLYLCGGDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007585

ORF Size: 1020 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_007585.2](#)

RefSeq Size: 1374 bp

RefSeq ORF: 1020 bp

Locus ID: 12306

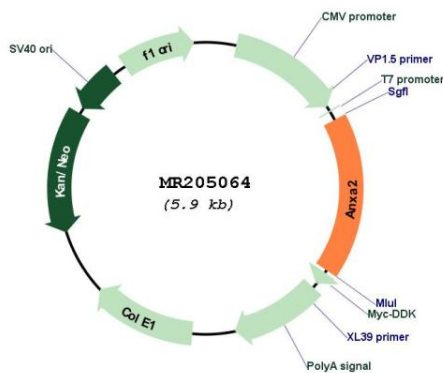
UniProt ID: [P07356](#)

Cytogenetics: 9 38.58 cM

MW: 38.7 kDa

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 MR205064