

Product datasheet for **MR205210**

Anxa1 (NM_010730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anxa1 (NM_010730) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Anxa1
Synonyms:	Anx-1; Anx-A1; C430014K04Rik; Lpc-1; Lpc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205210 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAATGGTATCAGAATTCCTCAAGCAAGCCCGTTTTCTTGAAAATCAAGAACAGGAATATGTTCAAG
CTGTAATAATCATACAAAGGTGGTCTGGGTCAGCAGTGAGCCCTACCCTTCCTCAATGTATCCTCGGA
TGTTGCTGCCTTGACAAAGCTATCATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTTACC
AAGAGGACCAATGCTCAGCGCCAGCAGATCAAGCCGCGTACTTACAGGAGAATGAAAAGCCCTGGATG
AAGTCTTGAGAAAAGCCCTTACAGGCCACCTGGAGGAGTTGTTTTGGCTATGCTAAAACTCCAGCTCA
GTTTGATGCAGATGAACTCCGTGGTCCATGAAGGGACTTGAAACAGATGAAGACTCTCATTGAGATT
TTGACAACAAGATCTAACGAACAAATCAGAGAGATTAATAGAGTCTACAGAGAAGAACTGAAAAGAGATC
TGGCCAAAGACATCACTTCAGATACATCTGGAGACTTTTCGAAAAGCCCTTGCTTGCTTGGCCAAAGGTGA
CCGTTGTCAGGACTTGAGTGTGAATCAAGATTTGGCTGATACGGATGCCAGGGCTTTGTATGAAGCTGGA
GAAAGGAGAAAAGGGGACAGACGTGAACGTGTTCACTACAATTCTGACCAGTAGGAGCTTTCCTCATCTTC
GCAGAGTGTTCAGAATTACGGAAAGTACAGTCAACATGACATGAACAAAGCTCTGGATCTGGAAGTGA
GGGTGACATTGAGAAGTGCCTCACAAACATCGTGAAGTGTGCCACCAGCACTCCAGCTTTCTTTGCCGAG
AAGCTGTACGAAGCCATGAAGGTTGCCGAACTCGCCATAAGGCATTGATCAGGATTATGGTCTCCCGTT
CGGAAATTGACATGAATGAAATCAAAGTATTTTACCAGAAGAAGTATGGAATCTCTCTTTGCCAAGCCAT
CCTGGATGAAACCAAAGGAGACTATGAAAAATCCTGGTGGCTCTGTGTGGTGGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205210 protein sequence
Red=Cloning site Green=Tags(s)

MAMVSEFLKQARFLENQEYVQAVKSYKGGPGSAVSPYPSFNVSSDVAALHKAIMVKGVDEATIIDILT
 KRTNAQRQQIKAAAYLQENKPLDEVLKALTGHLEEVVLA MLKTPAQFDADELRGAMKGLGTDLIEDL
 LTTRSNEQIREINRVYREELKRDLAKDITSDTSGDFRKALLALAKGDRCDLSVNQDLADTDARALYEAG
 ERRKGTDVNVFTTILTSRSPHLRRVFNQYKYSQHDMNKALDLELKGDIKCLTTIVKCATSTPAFFAE
 KLYEAMKGAGTRHKALIRIMVSRSEIDMNEIKVFYQKKYGISLCQAILDETKGDYKILVALCGGN

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_010730

ORF Size: 1041 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_010730.2](#), [NP_034860.2](#)

RefSeq Size: 1395 bp

RefSeq ORF: 1041 bp

Locus ID: 16952

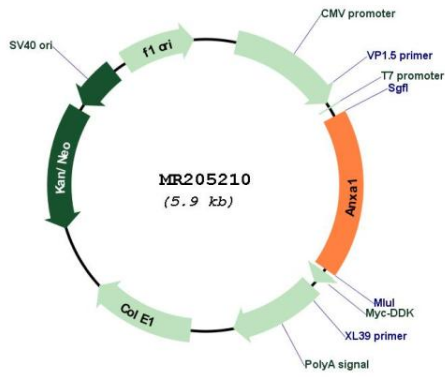
UniProt ID: [P10107](#)

Cytogenetics: 19 13.83 cM

MW: 38.7 kDa

Gene Summary: Plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. Has anti-inflammatory activity (PubMed:12475898). Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response (PubMed:12475898). Promotes resolution of inflammation and wound healing (PubMed:25664854). Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades. Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors (By similarity). Contributes to the adaptive immune response by enhancing signaling cascades that are triggered by T-cell activation, regulates differentiation and proliferation of activated T-cells (PubMed:17948261). Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells (PubMed:17948261). Has no effect on unstimulated T-cells. Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration. Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton (By similarity). Has high affinity for Ca(2+) and can bind up to eight Ca(2+) ions (By similarity). Displays Ca(2+)-dependent binding to phospholipid membranes (By similarity). Plays a role in the formation of phagocytic cups and phagosomes (PubMed:21245195). Plays a role in phagocytosis by mediating the Ca(2+)-dependent interaction between phagosomes and the actin cytoskeleton (PubMed:21245195). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205210