

## Product datasheet for **MG205072**

### Anxa2 (BC005763) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Anxa2 (BC005763) 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:** >MG205072 representing BC005763  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTACTGTCCACGAAATCCTGTGCAAGCTCAGCCTGGAGGGTGATCATTCTACACCCCAAGTGCC  
 ACGGGTCAGTCAAACCTACACCAACTTCGATGCTGAGAGGGATGCTCTGAACATTGAGACAGCAGTCAA  
 GACCAAAGGAGTGGATGAGGTACCATTGTCAACATCCTGACAAACCGCAGCAATGTGCAGAGGCAGGAC  
 ATTGCCCTTCGCCTATCAGAGAAGGACAAAAAGGAGCTCCCGTCAGCGCTGAAGTCAGCCTTATCTGGCC  
 ACCTGGAGACGGTGATTTTGGGCCTATTGAAGACACCTGCCAGTATGATGCTTCGGAATAAAAGCTTC  
 CATGAAGGGCCTGGGACTGACGAGGACTCCCTCATTGAGATCATCTGCTCCCGAACCAACCAGGAGCTG  
 CAAGAGATCAACAGAGTGTACAAGGAAATGTACAAGACTGATCTGGAGAAGGACATCATCTGACACAT  
 CTGGAGACTTCCGAAAGCTGATGGTCGCCCTTGCAAAGGGCAGACGAGCAGAGGATGGCTCAGTTATTGA  
 CTACGAGCTGATTGACCAGGATGCCCGGGAGCTCTATGATGCCGGGGTGAAGAGGAAAGGAACCGACGTC  
 CCCAAGTGGATCAGCATCATGACTGAGCGCAGTGTGTGCCACCTCCAGAAAGTGTTCGAAAGGTACAAGA  
 GCTACAGCCCTTATGACATGCTGGAGAGCATCAAGAAAGAGGTCAAAGGGGACCTGGAGAACGCCTTCT  
 GAACCTGGTCCAGTGCATCCAGAACAAGCCCTGTACTTCGCTGACCGGCTGTACGACTCCATGAAGGGC  
 AAGGGACTCGAGACAAGGTCTGATTAGAATCATGGTCTCTCGCAGTGAAGTGGACATGCTGAAAATCA  
 GATCTGAATTCAGAGGAAATATGGCAAGTCCCTGTACTACTACATCCAGCAAGACACCAAGGGTGACTA  
 CCAGAAGGCACTGCTGTACCTGTGTGGTGGGGATGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205072 representing BC005763  
 Red=Cloning site Green=Tags(s)

MSTVHEILCKLSLEGDHSTPPSAYGSVKPYTNFDAERDALNIETAVKTKGVDEVTIVNIL TNRSNVQRQD  
 IAFAYQRRTKKELPSALKSALSGHLETVILGLLKTPAQYDASELKASMKGLGTDEDSLIEIICSRTNQEL  
 QEINRVYKEMYKTDLEKDIISDTSGDFRKL MVALAKGRRADGSDVIDYELIDQDARELYDAGVKRKGTDV  
 PKWISIMTERSCHLQKVFERYSYSPYDMLSEIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKG  
 KGTRDKVLIIRIMVSRSEVDMLKIRSEFKRKYGKSLYYYIQQDTKGDYQKALLYLCGGDD

TRTRPLE - GFP Tag - V

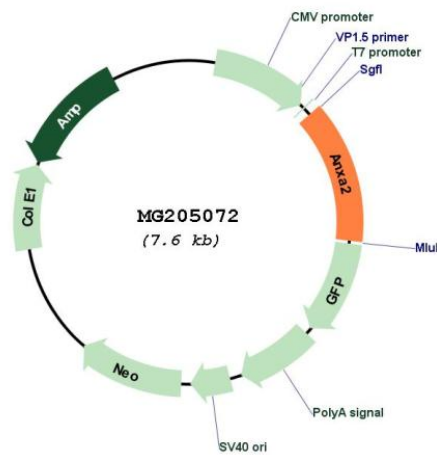
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC005763

**ORF Size:** 1017 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC005763.1</a>
<b>RefSeq Size:</b>	1365 bp
<b>RefSeq ORF:</b>	1019 bp
<b>Locus ID:</b>	12306
<b>Cytogenetics:</b>	9 38.58 cM
<b>Gene Summary:</b>	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]