

## **Product datasheet for RC208897**

## AGR3 (NM 176813) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** AGR3 (NM\_176813) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: AGR3

Synonyms: AG-3; AG3; BCMP11; hAG-3; HAG3; PDIA18

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC208897 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATGCTACACTCAGCTTTGGGTCTCTGCCTCTTACTCGTCACAGTTTCTTCCAACCTTGCCATTGCAA
TAAAAAAGGAAAAGAGGCCTCCTCAGACACTCTCAAGAGGATGGGGAGATGACATCACTTGGGTACAAAC
TTATGAAGAAGGTCTCTTTTATGCTCAAAAAAGTAAGAAGCCATTAATGGTTATTCATCACCTGGAGGAT
TGTCAATACTCTCAAGCACTAAAGAAAGTATTTGCCCAAAATGAAGAAATACAAGAAATGGCTCAGAATA
AGTTCATCATGCTAAACCTTATGCATGAAACCACTGATAAGAATTTATCACCTGATGGGCAATATGTGCC
TAGAATCATGTTTGTAGACCCTTCTTTAACAGTTAGAGCTGACATAGCTGGAAGATACTCTAACAGATTG
TACACATATGAGCCTCGGGATTTACCCCTATTGATAGAAAACATGAAGAAAACATTAAGACTTTATCAGT

CAGAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208897 protein sequence

Red=Cloning site Green=Tags(s)

MMLHSALGLCLLLVTVSSNLAIAIKKEKRPPQTLSRGWGDDITWVQTYEEGLFYAQKSKKPLMVIHHLED CQYSQALKKVFAQNEEIQEMAQNKFIMLNLMHETTDKNLSPDGQYVPRIMFVDPSLTVRADIAGRYSNRL

YTYEPRDLPLLIENMKKALRLIQSEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6035">https://cdn.origene.com/chromatograms/mk6035</a> d12.zip



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**Restriction Sites:** 

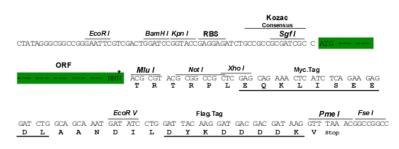
Sgfl-Mlul

**Cloning Scheme:** 

Cloning sites used for ORF Shuttling:

Sgf I ORF Miu I

--- GCGATCGC C ATG ---//--- NNX ACG CGT ---



<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_176813

ORF Size: 498 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:** <u>NM 176813.5</u>

RefSeq Size: 763 bp RefSeq ORF: 501 bp



 Locus ID:
 155465

 UniProt ID:
 Q8TD06

 Cytogenetics:
 7p21.1

**Protein Families:** Secreted Protein

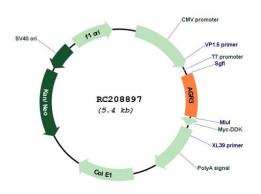
**MW:** 19.2 kDa

**Gene Summary:** This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic

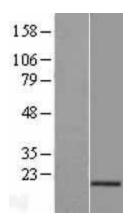
reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, and a C-terminal ER-retention sequence. This gene is expressed in ciliated airway epithelial cells and, in mouse, plays a role in ciliary beat frequency in multiciliated cells. This gene is also over-expressed in breast, ovarian, and prostrate cancers. [provided by RefSeq,

Dec 2016]

## **Product images:**

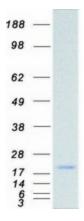


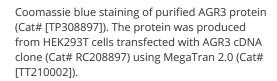
Circular map for RC208897

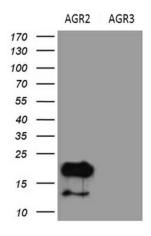


Western blot validation of overexpression lysate (Cat# [LY403593]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208897 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).









HEK293T cells were transfected with the pCMV6-ENTRY AGR2 (Cat# [RC202023], Left lane) or pCMV6-ENTRY AGR3 (Cat# RC208897, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AGR2(Cat# [TA809754]) (Cat# [TA809754]) (1:2000).