

Product datasheet for **RG202023**

AGR2 (NM_006408) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AGR2 (NM_006408) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AGR2
Synonyms: AG-2; AG2; GOB-4; HAG-2; HEL-S-116; HPC8; PDIA17; XAG-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202023 representing NM_006408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGAAAATCCAGTGTGAGCATTCTTGCTCCTTGTTGGCCCTCTCTACACTCTGGCCAGAGATACCA
 CAGTCAAACCTGGAGCCAAAAAGGACACAAAGGACTCTCGACCCAACTGCCCCAGACCTCTCCAGAGG
 TTGGGGTGACCAACTCATCTGGACTCAGACATGAAGAAGCTCTATAAAATCCAAGACAAGCAACAAA
 CCCTTGATGATTATTCATCACTTGGATGAGTGCCACACAGTCAAGCTTTAAAGAAAGTGTGGCTGAAA
 ATAAAGAAATCCAGAAATGGCAGAGCAGTTTGTCTCCTCAATCTGGTTTATGAAACAAGTACAAACA
 CCTTCTCCTGATGGCCAGTATGTCCCGAGGATTATGTTTGTGACCCATCTCTGACAGTTAGAGCCGAT
 ATCACTGGAAGATATTCAAACCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTGCTTGACAACA
 TGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202023 representing NM_006408
 Red=Cloning site Green=Tags(s)

MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKLPQTLSRGWDQLIWTQTYEEALYKSKTSNK
 PLMIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSPDGQYVPRIMFVDPSTVTRAD
 ITGRYSNRLYAYEPADTALLLDNMKALKLLKTEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_006408

ORF Size: 525 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_006408.2](#), [NP_006399.1](#)

RefSeq Size: 1701 bp

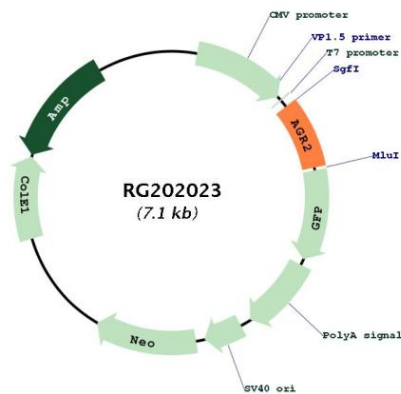
RefSeq ORF: 528 bp

Locus ID: 10551

UniProt ID: [O95994](#)

Cytogenetics:	7p21.1
Protein Families:	Secreted Protein
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 protein plays a role in cell migration, cellular transformation and metastasis and is as a p53 inhibitor. As an ER-localized molecular chaperone, it plays a role in the folding, trafficking, and assembly of cysteine-rich transmembrane receptors and the cysteine-rich intestinal glycoprotein mucin. This gene has been implicated in inflammatory bowel disease and cancer progression. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG202023