

## Product datasheet for **SC116098**

### AGR2 (NM\_006408) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGR2 (NM_006408) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGR2
Synonyms:	AG-2; AG2; GOB-4; HAG-2; HEL-S-116; HPC8; PDIA17; XAG-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116098 sequence for NM_006408 edited (data generated by NextGen Sequencing)

```
ATGGAGAAAATTCCAGTGTGAGCATTCTTGCTCCTTGTTGGCCCTCTCTACACTCTGGCC
AGAGATACCACAGTCAAACCTGGAGCCAAAAGGACACAAAGGACTCTCGACCCAACTG
CCCCAGACCCTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAA
GCTCTATATAAATCCAAGACAAGCAAAACCCCTTGATGATTATTCATCACTTGGATGAG
TGCCACACAGTCAAGCTTTAAAGAAAGTGTGGCTGAAAATAAAGAAATCCAGAAATTG
GCAGAGCAGTTTGTCTCTCAATCTGGTTTATGAAACAAGTACAAACACCTTTCTCTCT
GATGGCCAGTATGTCCCAAGGATTATGTTTGTGACCCATCTCTGACAGTTAGAGCCGAT
ATCACTGGAAGATATTCAAACCGTCTCTATGCTTACGAACCTGCAGATACAGCTCTGTTG
CTTGACAACATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTGTAA
```

Clone variation with respect to NM\_006408.3  
441 t=>c



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006408 unedited  
 TTTAGCATATTTGTATACGACTTCACTATAGGCGGCCCGGAATTCGCACGAGGCGCATC  
 CTAGCCGCGGACTCACACAAGGCAGGTGGGTGAGGAAATCCAGAGTTGCCATGGGAGAAA  
 ATTCCAGTGTGAGCATTCTTGCTCCTTGTTGCCCTCTCTACACTCTGGCCAGAGATACC  
 ACAGTCAAACCTGGAGCCAAAAAGGACAAAAGGACTCTGACCCAAACTGCCCCAGACC  
 CTCTCCAGAGGTTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGATGCTCTATAT  
 AAATCCAAGACAAGCAACAAACCCTTGATGATTATTCATCACTTGGATGAGTGCCACAC  
 AGTCAAGCTTTAAAGAAAGTGTTTGCTGAAAATAAAGAAATCCAGAAATTGGCAGAGCAG  
 TTTGCTCCTCAATCTGGTTTATGAAACAACGACAAACACCTTTCTCCTGATGGCCAG  
 TATGTCCCCAGGATTATGTTTGTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGA  
 AGATATTCAAACCGTCTACATGCTTACGAACCTGCAGATACAGCTCTGTTGCTTGACAAC  
 ATGAAGAAAGCTCTCAAGTTGCTGAAGACTGAATTGTAAGATAAAAAATCTTCAAGCCC  
 TTTTGTCTGTCAAGCCCTTGAGACTTGAAACCAGAAGAAGTGTGAGAAGACCGCCTAGTG  
 TGAAGCATAGCGAACACCCCTGATAAGGTATGGTTTAAATGTTACAACAACATTTTTTTT  
 AAAAAACAAGCTTTTAAACATTTGGGTTCAAGTGTACATGGTGTGAAACCAATATTGTA  
 TACTACATAGGGAGCCACGATTTTTCAAAAAAAAAAATAATGTTTGGGCGGTGTCCTGGT  
 TTTTCAAAAAAAAAAAAAAAAAAACCCTCTAAATGCCGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006408 unedited  
 CGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGGAGAAAACAGAACACCCCAAAA  
 CATTTATTTTTTTTTTAGAAAAATCATGGCTCACTATGGTAGTATACAATATTGTTTTCA  
 CACATGTACACTTGAAACCAAATTTCTAAAACCTGTTTTTCTTAAAAAATAGTTGTGTA  
 ACATTAACCATAACCTAATCAGTGTGTTCACTATGCTTCCACACTAGCCAGTCTTCTCA  
 CACTTCTCTGGTTTCAAGTCTCAAGGCCTGACAGACAGAAGGGCTTGGAGATTTTTTTT  
 CTTTACAATTCAGTCTTCAAGCACTTGAGAGCTTTCTTCAATGTTGCAAGCAACAGAGCT  
 GTATCTGCAGGTTTCGTAAGCATAGAGACGGTTTGAATATCTTCCAGTGATATCGGCTCTA  
 ACTGTCAGAGATGGGTCAACAAACATAATCCTGGGGACATACTGGCCATCAAGAGAAAGG  
 TGTTTGTGAGTTGTTTATAAACAGATTGAGGAGGACAAACTGCTCTGCCAATTTCTGG  
 ATTTCTTTATTTTCAGCAACACTTTCTTTAAAGCTTGACTGTGTGGGCACTCATCCAAG  
 TGATGAATAATCATCAAAGGTTTGTGCTTGTCTTGGATTATATAGAGCTTCTTCATAT  
 GTCTGAGTCCAGATGAGTTGGTCAACCCCAACCTCTGGAGAGGGTCTGGGGCACTTTGGGT  
 CCAGAGCCCTTGTGCTCTTTTGGCCTCCAGNTTGACTGGGGATTCTTTGCCAAAGTGTA  
 TGAGAGGCCCAAGGAACAGATGCTGACCTTGGATTTTTCCATGCAACTTTGGATTCTT  
 CACCCACCTCCTTGTGATTCCGCGGCTAGATGCCCTTTGCCAATTTGGCCGCGCTAT  
 TTGAGTGTATAAAATCTGACGGCACTAACAACTTGCTTTATAACCCACGAACCCACG  
 CCTTTTGGTAAGGGCGGGTTTTTCATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006408

**Insert Size:**

890 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<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="#">NM_006408.2</a> , <a href="#">NP_006399.1</a>
<b>RefSeq Size:</b>	1701 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	10551
<b>UniProt ID:</b>	<a href="#">O95994</a>
<b>Cytogenetics:</b>	7p21.1
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>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]</p>