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# Product datasheet for RC202023L3V

## AGR2 (NM_006408) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | AGR2 (NM_006408) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | AGR2 |
| **Synonyms:** | AG-2; AG2; GOB-4; HAG-2; HEL-S-116; HPC8; PDIA17; XAG-2 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_006408 |
| **ORF Size:** | 525 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC202023).` |
| **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. |
| **RefSeq:** | NM_006408.2 |
| **RefSeq Size:** | 1701 bp |
| **RefSeq ORF:** | 528 bp |
| **Locus ID:** | 10551 |
| **UniProt ID:** | O95994 |
| **Cytogenetics:** | 7p21.1 |
| **Protein Families:** | Secreted Protein |
| **MW:** | 19.8 kDa |

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**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 gylcoprotein mucin. This gene has been implicated in inflammatory bowel disease and cancer progression. [provided by RefSeq, Mar 2017]