

## Product datasheet for **SC327227**

### Argonaute 2 (AGO2) (NM\_001164623) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Argonaute 2 (AGO2) (NM_001164623) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGO2
Synonyms:	CASC7; EIF2C2; LESKRES; LINC00980; PPD; Q10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



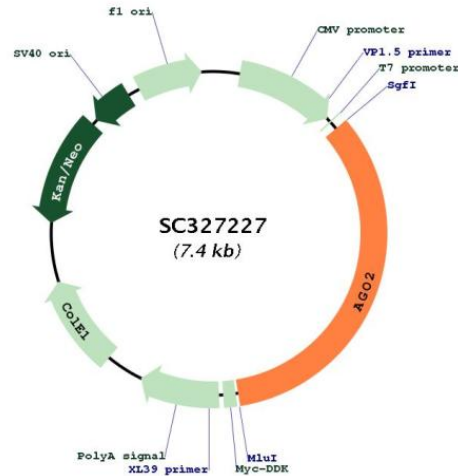
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**Fully Sequenced ORF:** >SC327227 representing NM\_001164623.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001164623

**Insert Size:** 2478 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001164623.1](#)

**RefSeq Size:** 3418 bp

**RefSeq ORF:** 2478 bp

**Locus ID:** 27161

**UniProt ID:** [Q9UKV8](#)

**Cytogenetics:** 8q24.3

**Protein Families:** Druggable Genome

**MW:** 93.6 kDa

**Gene Summary:** This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, and contains a PAZ domain and a PIWI domain. It may interact with dicer1 and play a role in short-interfering-RNA-mediated gene silencing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]  
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting isoform (2) is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.