

Product datasheet for **SC111241**

Argonaute 2 (AGO2) (NM_012154) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Argonaute 2 (AGO2) (NM_012154) Human Untagged Clone
Tag:	Tag Free
Symbol:	Argonaute 2
Synonyms:	CASC7; EIF2C2; LESKRES; LINC00980; PPD; Q10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_012154, the custom clone sequence may differ by one or more nucleotides

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ATGTA CT CGGGAGCCGGCCCCGCACTTGCACCTCTCGCGCCGCCCCCATCCAAGGATATGCCTTCA
AGCCTCCACCTAGACCCGACTTTGGGACCTCCGGGAGAACAATCAAATTACAGGCCAATTTCTTCGAAAT
GGACATCCCCAAAATTGACATCTATCATTGAATTGGATATCAAGCCAGAGAAGTGCCCGAGGAGAGTT
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CAGGCGTTACACGATGCACTTTTCAGGGCGGCTGCCAGCGTCCCTTTTGAGACGATCCAGGCCCTGGACG
TGGTCATGAGGCACTTGCATCCATGAGGTACACCCCGTGGGCCGTCTTCTTACCAGCGTCCGAAGG
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GCACTGGCCAAGGCGGTCCAGGTTACCAAGACACTCTGCGCACCATGTACTTTGCTTGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012154 unedited TCCCGCCCCGTTGCCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGA GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT TCGGCAGAGGCCGCGCCGGGGCGGATCGTGCGGCCGGCGGCTCCCTCGCGGCTCGCGGC GTCGGGGCCCGTGGCGCGCGCGGGCCGCCCTCGGCCCGGAGCCCTCGGCGGGCCCA CCATGTACTCGGGAGCCGGCCCCGCACCTGCACCTCTGCGCCGCGCCCCCATCCAAG GATATGCCCTTCAAGCTCCACCTAGACCCGACTTGGGACTCCGGGAGAACAATCAAAT TACAGGCCAATTTCTTCGAAATGGACATCCCCAAAATTGACATCTATCATTATGAATTGG ATATCAAGCCAGAGAAGTGCCCGAGGAGGTTAACAGGGAAATCGTGAACACATGGTCC AGCACTTTAAACACAGATCTTTGGGGATCGGAAGCCCGTGTGACGGCAGGAAGAATC TATACACAGCCATGCCCTTNCGATTGGGAGGGACAAGGTGGAGCTGGAGGTACGCTGC CAGGAGAGGGCAGGATCGCATCTTCAAGGGTGTCCATCAGTGGGTGCTCTGCGTGAGCTT GCAGGGCGTACACGATGCACTTTAGGGNCGTGCCAGCGTCCCTTTTGAGACGATCCA CGCCCCTGGACGTGGTATGAGGCACTTGCCATCCATTGAGTACACCCCGTGGGCCCGC TCCTTCTTACC GCGTCCGAAGGCTGCTTAACCTCCTGGCCGGGGCCGAAANNNGTGG NTTTGGCTTNCATCAGTCCGGCCGGCCTTTTTCTGGGAAATGATGCTGAAATTGAAGGG TCAACACCAGGGTTTACAAGGCCAACAGTAACCAGTTTGTGTAAGTTTGAATT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012154 unedited CCTTGGCGATGGCACTCTCCATGCCAGNATAGCACTGGGTGAGGGTCACAGGGCTGCCAC CCGGGTATCTGTTGCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTT TTTTTTTTTTTTAAATACATTTTTTATTAATAATGGCACTTGTCTGCCAACCTCTCTGGAC CTGGAAATGCTGTAACACACGGGGCCACCTTCTGCCACTGCTCCTATTTCAAGCCGG GTGAAGGGCGGTGCTGGCAGAACACGGCACCTGCGGACGCCTCTGCATGGCCACCGGCC TCAGTCGAGGAACTTGGGTGAGCCACGCCAGGGGCACACGAGCATCGCCTGGAAATCAAC TTTAGTGACAACATCAGAATGTTCAAGGCTTTAAACCACACTTGTGTTTTGTGTTGCTT TCACTCTCAGAAGATTACAGCTAGTTTGGCCCATCAATTTTATAGAGAATCATGTATT AAAAACAAGTAAATTGAATGACCAAATAAATTAATAATGTTTTAAAGCCCTGAGTTTATA GACTGGTTTTAAGAGATTTTTAAGACACACGGGACTCTGTTTTAATAAGCAGCTTATAGA TTTTAGCAAACCATATTTCTATGACATTGGGTTCTCATACAGGTCTGCAGTTCAAAATC CAAGTTTGAAATCTGGGACGGAAGGCATTCTGGAAAACGGAGAATCTAATAAAATCAATG ACGTCTCATGTTGATGCTGGCTGTACGGAAGGGCTGGCCATCTGTTGGTCTGAGTGTA NCTGGTCTCGTGAATCCCACTCGTACACAATCGCTAAACACTAANACATGTCAAGCANA GTACATGGTGCGCANAGTGTCTTGGTGAACCTGNACCGNCTTGGCCAGTGTGTTGGTGC TCGNCCGTA CTCTGCCAGAGTATGGCTTCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_012154
Insert Size:	4000 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).

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_012154.2](#), [NP_036286.2](#)

RefSeq Size: 3567 bp

RefSeq ORF: 2580 bp

Locus ID: 27161

UniProt ID: [Q9UKV8](#)

Cytogenetics: 8q24.3

Domains: PAZ, Piwi

Protein Families: Druggable Genome

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 (1) represents the longer transcript and encodes the longer 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.