

## Product datasheet for **SC114057**

### Argonaute 4 (AGO4) (NM\_017629) Human Untagged Clone

#### Product data:

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | Argonaute 4 (AGO4) (NM_017629) Human Untagged Clone |
| Tag:                      | Tag Free                                            |
| Symbol:                   | Argonaute 4                                         |
| Synonyms:                 | EIF2C4                                              |
| Mammalian Cell Selection: | None                                                |
| Vector:                   | <u>pCMV6-XL4</u>                                    |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_017629, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCGCTGGGACCCGGACCTCCGGCTAGCCTGTTTCAGCCACCTCGTCGTCCTGGCCTTGAACTG
TTGGAAAACCAATTCGACTGTTAGCCAATCATTTTCAGGTTTCAGATTCTAAAATAGATGTGTATCACTA
TGATGTGGATATTAAGCCTGAAAAACGGCCTCGTAGAGTCAACAGGGAGGTAGTAGATACAATGGTGCGG
CACTTCAAGATGCAAAATATTTGGTGATCGGCAGCCTGGGTATGATGGCAAAAGAAACATGTACACAGCAC
ATCCACTACCAATTGGACGGGATAGGGTTGATATGGAGGTGACTCTCCAGGCGAGGGTAAAGACCAAAAC
ATTTAAAGTGTCTGTTCACTGGGTGTGAGTGTGAGCCTTCAGTTGCTTTTGAAGCTTTGGCTGGGCAC
TTGAATGAAGTCCAGATGACTCAGTACAAGCACTTGATGTTATCACAAGACACCTTCCCTCCATGAGGT
ACACCCCACTGGGCCGTTCTTTTTCTACCCCGGAAGGTTACTACCACCTCTGGGAGGGGGCAGGGA
GGTCTGGTTTGGTTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAACATTGATGTATCT
GCAACTGCTTTCTACCGGCTCAGCCTATCATTGAGTTTCATGTGTGAGGTTTTAGACATTCAGAATCA
ATGAACAGACCAAACCTCTAACAGACTCCAGCGTGTCAAATTTACCAAGAAATCAGAGGTCTCAAAGT
TGAGGTGACCCACTGTGGACAGATGAAACGAAAAATACCGAGTTTGAATGTGACTAGACGCCAGCCAGT
CATCAAACCTTTCTTTGACGCTAGAAAACGGTCAAGCTATGGAATGTACAGTAGCTCAATATTTTAAAGC
AAAAGTATAGTCTGCAACTGAAATACCCCATCTTCCCTGTCTCCAAGTGGGACAAGAACAAAAGCATAC
ATACTTGCCACTCGAGGTCTGTAATATAGTGGCAGGACAGCGATGTATCAAGAAGCTCACAGACAATCAG
ACTTCCACAATGATCAAAGCTACAGCAAGATCTGCTCCTGACAGACAGGAAGAGATCAGTAGACTGGTGA
AGAGCAACAGTATGGTGGGTGGACCTGATCCATACCTTAAAGAATTTGGTATTGTTGCCACAATGAAAT
GACAGAGCTCACAGGCAGGGTACTTCCAGCACCATGCTGCAATATGGAGGCCGAATAAAACAGTAGCC
ACACCCAACAGGGTGTCTGGGACATGCGAGGAAAGCAGTTTTATGCTGGCATTGAAATTAAGTTTGGG
CAGTTTGCTTGTGTTTGCACCTCAGAAACAATGTAGGGAAGATTTACTAAAGAGTTTCACTGACCAAGTGC
TAAATCTCTAAGGATGCAGGAATGCCATCCAGGGTCAGCCATGTTTCTGCAAGTATGCACAAGGTGCA
GACAGTGTGGAGCCTATGTTTAAACATCTGAAATGACTTATGTGGGCCTACAGCTAATAGTGGTTATCC
TGCCTGGAAGACACCAGTATATGCGGAGGTGAAACGTGTTGGAGATACCCTTCTAGGTATGGCCACACA
GTGTGTCCAGGTAAAAATGTAGTGAAGACCTCACCTCAAACCTTTCCAATCTTGCCTGAAGATAAAT
GCAAACTTGAGGAATTAACAATGTGCTTGTGCCTCATCAAAGGCCCTCGGTGTTCCAGCAGCCTGTCA
TCTTCTGGGAGCGGATGTCACACACCCCCAGCAGGGGATGGGAAGAAACCTTCCATTGCTGCTGTGGT
TGGCAGTATGGATGGCCACCCAGCCGGTACTGTGCCACCGTTCCGGTGCAGACTTCCCGCAGGAGATC
TCCAAGAGCTCCTCTACAGTCAAGAGGTCTCCAGGACCTGACTAACATGGTTCCAGAGCTGCTGATTC
AGTTCTACAAATCCACACGCTTCAAACCACTCGGATCATCTATTACCGTGGAGGGGTATCTGAGGGACA
AATGAAACAGGTAGCTTGGCCAGAACTAATAGCAATTCGAAAGGCATGTATTAGCTTGAAGAAGATTAC
CGGCCAGGAATAACTTATATTGTTGTGCAAAAAAGACATCACACAGCACTTCTGTGCAGATAAAACAG
AAAGGGTAGGGAAAAGTGGCAATGTACCAGCAGGCACTACAGTGGATAGTACCATCACACATCCATCTGA
GTTTGACTTTTACCTCTGTAGTCATGCAGGAATTCAGGGAACAGCCGTCCTCACATTACCAGGTCTTG
TGGGATGACAACGCTTCACTGCAGATGAACTCCAGCTACTGACTTACCAGCTGTGTACACCTATGTGA
GGTGCACCTCGCTCAGTCTCTATTCCAGCCCTGCATATTATGCCCGGCTTGTAGCATTTAGGGCAAGGTA
TCATCTGGTGGATAAAGATCATGACAGTGCAGGAAGGCAGTCATGTGTGAGGACAGAGCAACGGCCGGAT
CCTCAGGCCTTGCTAAGGCTGTGCAAAATCCACCATGATACCCAGCACACGATGTATTTGCCTGA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017629 unedited  
 TTGTCAGAATTTGTATACGACTCATATAGGCGGCNCGGATTTCGGCACGAGCACCAATGC  
 TGCAATATGGAGGCCGAATAAAACAGTAGCCACACCAACCAGGGTGTCTGGGACATGC  
 GAGGAAAGCAGTTTTATGCTGGCATTGAAATTAAGTTTGGGCAGTTGCTTGTGTTTGCAC  
 CTCAGAAACAATGTAGGGAAGATTTACTAAAGAGTTTCACTGACCAGCTGCGTAAATCT  
 CTAAGGATGCAGGAATGCCATCCAGGGTCAGCCATGTTTCTGCAAGTATGCACAAGGTG  
 CAGACAGTGTGGAGCCTATGTTTAAACATCTGAAAATGACTTATGTGGGCTACAGCTAA  
 TAGTGGTTATCCTGCCTGGAAAGACACCAGTATATGCGGAGGTGAAACGTGTTGGAGATA  
 CCCTTCTAGGTATGGCCACACAGTGTGTCCAGGTAAAAAATGTAGTGAAGACCTCACCTC  
 AAACCTTTTCCAATCTTTGCCTGAAGATAAATGCAAACTTGGAGGAATTAACAATGTGC  
 TTGTGCCTCATCAAAGGCCCTCGGTGTTCCAGCAGCCTGTCATCTTCTGGGAGCGGATG  
 TCACACACCCCCAGCAGGGGATGGGAAGAAACCTTCCATTGCTGCTGTGGTTGGCAGTA  
 TGGATGGCCACCCAGCCGGTACTGTGCCACCGTTCGGGTGCAGACTTCCCGGCAGGAGA  
 TCTCCCAAGAGCTCCTCTACAGTCAAGAGGTATCCAGNACCTGACTAACATGGTTCCGAG  
 AGCTGCTGATTAGTTCTACAAATCCACACGCTTCANACCACTCGNATCATCTATTACC  
 GTGGAGGGGTATCTGAGGGACAAATGAAACAGGTAGCTTGGCCAGGACTANNTAGCATT  
 GAAGGCCATGTATTAGCTTGGGAAGAAGATTACCGNGCAGNNNATACTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017629 unedited  
 CATGTTGTGATTTAGTCGGCTTTACAGNATACTTTTANATGGCAGTGTTATCTCCGTCA  
 CTGTGACATGCATTACATCTGTTTATGTCACACATTCACAAAAGTCGACCAAATAAGAGA  
 ACTGCCTATTTGAATCTGCAGCCAAATATAGTGCAAATTGCCTGTCAGCATGACTTGCA  
 CCAGCACAAAGTCTGCAGAGATCAATAAGATAAAGTAGTAAACTAATAAACTCTGTAAA  
 ACTTTCAAAAATTAATGCTCATTAAAGGCATTTACAGTGGCAAAGTCAGAAATCTTCATT  
 AAAAAAGCTATGGACCCACACAATTAATAGTTTACACTGAACTGAAGTAGATTGTTTGGT  
 TTTTCTCTCCCACTTATGCATATACCCCACTCAATGACTACAGAAAAAAGGAATAATCTT  
 CTCTTCTAAGACTAGAGGGATGCGGTGAACACCACAGCTAGCAAAATATTCCATAGAAAC  
 CCTTCTTGTAAAGTCCTTTAGAAAGTTCAGGCTGATCAGCCTTTGCACATTGAGGTAAAA  
 ATTCAGTCCAGTGCATCAGAAAAAGATAATCTATTAGTATCTATTACTNTAAAAAATGGC  
 TCAATTNTGTTGACGCATCAGACAGTGTGCANAGTATAGATTGAGTGAAGTATTTCCGA  
 GCTGCTGGTAGAAGACACCTGAAGTCAACGTGGCTCGATCTAGAGGCGGTAGGCATTTGA  
 AACATTTNTGAGCTGCATGGNGTGCCAAATNGTNTGAGTCTTTTCTGAGACTCTCAGGC  
 ANATACATCGTGTGCTGGGTATCATGGTGGGAATTGCACAGCCCTACCCAGGNCCTGAGA  
 TCCNNGNCGTGCTGTGCTGCTGAACATGACTGNCCTTNCNACTGTCATGATCTTTATCCAC  
 AGATGATACCTTGCCCTAATGCTACAAGCN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017629

**Insert Size:**

3890 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>                | <u>NM_017629.1, NP_060099.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 7069 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1164 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 192670                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u>Q9HCK5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 1p34.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | Piwi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the Argonaute family of proteins which contain PAZ and PIWI domains and play an integral role in RNA interference and short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a cluster of related family members. [provided by RefSeq, Mar 2017]</p>                                                                                                                                                                                                   |