

## Product datasheet for TP328592M

### Argonaute 2 (AGO2) (NM\_001164623) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens eukaryotic translation initiation factor 2C, 2 (EIF2C2), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC228592 representing NM_001164623 Red=Cloning site Green=Tags(s)

MYSGAGPALAPPAPPPPIQGYAFKPPRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELDIKPEKCPRRV  
NREIVEHMQHFQTKQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEGKDRIFKVSIKWVSCVSL  
QALHDALSGRLPSVPFETIQALDVMRHLPSMRYTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPSL  
WKMMLNIDVSATAFYKAQPVIEFVCEVLDFKSIEEQKPLTDSQRVKFTKEIKGLKVEITHCGQMCRKYR  
VCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVQGEQKHTYLPLEVCNIVAGQ  
RCIKKLTNDQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILY  
GGRNKAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISR DAGMPIQGQPC  
FCKYAQGADSVPEMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLMATQCVQMKNVQRTPQTL  
SNLCLKINVKLGAVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR  
VQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDYQP  
GITFIVVQKRHHTRLFCTDKNERGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVTRCTRSVSIPAPAY  
YAHLVAFRARYHLVDKEHDSAEGSHTSGQSNRGRDHQALAKAVQVHQDTLRTMYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

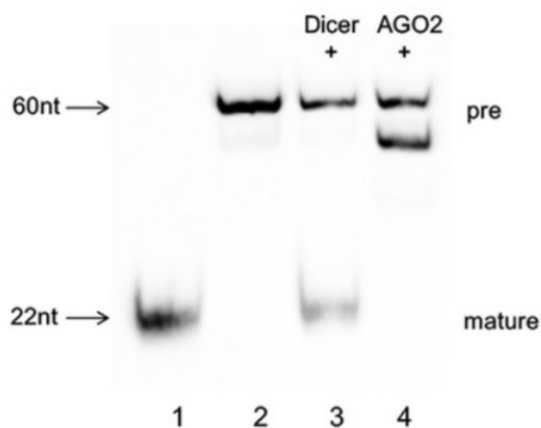
Tag:	C-Myc/DDK
Predicted MW:	93.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Enzyme activity (PMID: <a href="#">28769054</a> )
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001158095</a>
<b>Locus ID:</b>	27161
<b>UniProt ID:</b>	<a href="#">Q9UKV8</a>
<b>Cytogenetics:</b>	8q24.3
<b>RefSeq ORF:</b>	2475
<b>Synonyms:</b>	CASC7; EIF2C2; LESKRES; LINC00980; PPD; Q10
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome

### Product images:



Processing of pre-miR-130b by recombinant Dicer and AGO2 proteins in vitro. Twenty pmol of pre-miR-130b was incubated with 2 U of Dicer or 200 ng of Ago2 (OriGene [TP328592]) for four hours. The processed products were detected using Northern blotting with a biotin-labeled anti-miR-130b probe. Lane 1: 22 nt biotin-ssRNA; 2: pre-miR-130b; 3: pre-miR-130b with Dicer; 4: pre-miR-130b with AGO2. Figure cited from Sci Rep, PMID: 28769054



Coomassie blue staining of purified AGO2 protein (Cat# [TP328592]). The protein was produced from HEK293T cells transfected with AGO2 cDNA clone (Cat# [RC228592]) using MegaTran 2.0 (Cat# [TT210002]).