

Product datasheet for TP328592

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, 20 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
 VCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQ
 RCICKLTDNQSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILY
 GGRNKAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTQLRKISR DAGMPIQGQP
 C
 FCKYAQGADSVPEPMFRHLKNTYAGLQLVWVILPGKTPVYAEVKRVGDTVLMATQCVQMKNVQRTTPQT
 L
 SNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR
 VQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIFYRDGVSEGQFQQVLHELLAIREACIKLEKDYQP
 GITFIVQKRHHTRLFCTDKNERGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSIPAPAY
 YAHLVAFRARYHLVDKEHDSAEGSHTSGQSNRGRDHQALAKAVQVHQDTLRTMYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

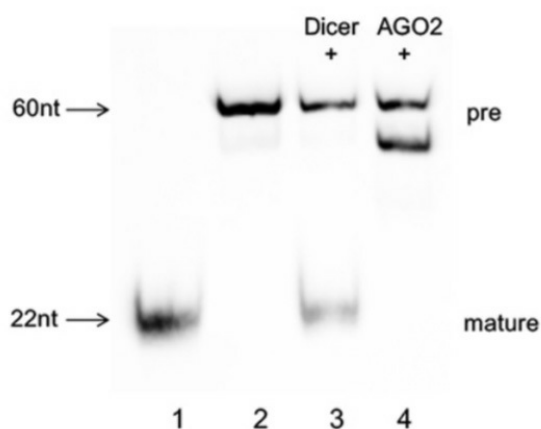
Tag:	C-Myc/DDK
Predicted MW:	93.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Enzyme activity (PMID: 28769054)



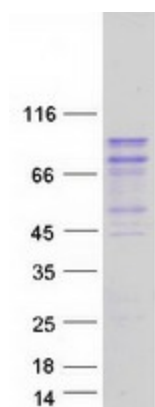
[View online »](#)

Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001158095</u>
Locus ID:	27161
UniProt ID:	<u>Q9UKV8</u>
Cytogenetics:	8q24.3
RefSeq ORF:	2475
Synonyms:	CASC7; EIF2C2; LESKRES; LINC00980; PPD; Q10
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]
Protein Families:	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]).