

## Product datasheet for **TP762603**

### AGO1 (NM\_012199) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human eukaryotic translation initiation factor 2C, 1 (EIF2C1), full length, with N-terminal GST and C-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region full length of EIF2C1
Tag:	N-GST and C-HIS
Predicted MW:	97 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
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 after receiving vials.
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:	<a href="#">NP_036331</a>
Locus ID:	26523
UniProt ID:	<a href="#">Q9UL18</a> , <a href="#">B2RAD8</a>
RefSeq Size:	7478
Cytogenetics:	1p34.3
RefSeq ORF:	2571
Synonyms:	EIF2C; EIF2C1; GERP95; hAgo1; Q99



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**Summary:**

This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigenic RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon. [provided by RefSeq, Nov 2015]

**Protein Families:**

Druggable Genome

**Product images:**

Purified recombinant protein EIF2C1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.