

Wako

For target mRNA research

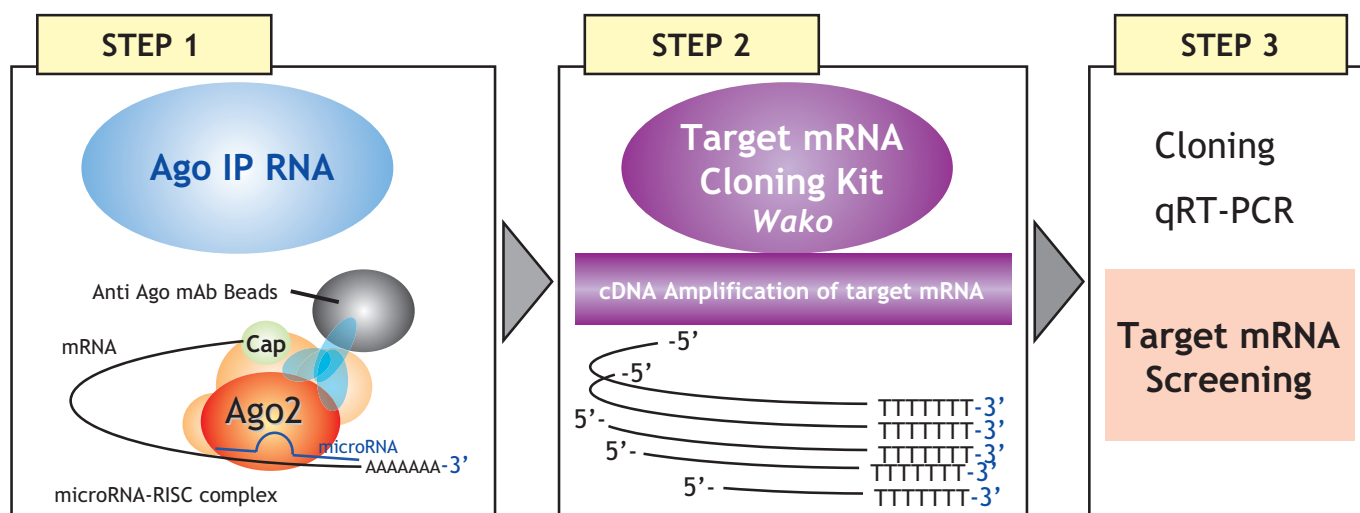
Target mRNA Cloning Kit *Wako*

(Wako catalog #298-68001)

Target mRNA Cloning Kit *Wako* is used for the cDNA amplification of low population mRNA. Especially, this product will be used for the cloning of microRNA-targeted mRNA from Ago IP RNA fraction. The amplified cDNA will be target mRNA of microRNA.

**Features**

- Simple Protocol
- Amplification of low population mRNA
- Independent cDNA amplification to the length of mRNAs
- Investigation of microRNA targeted mRNA

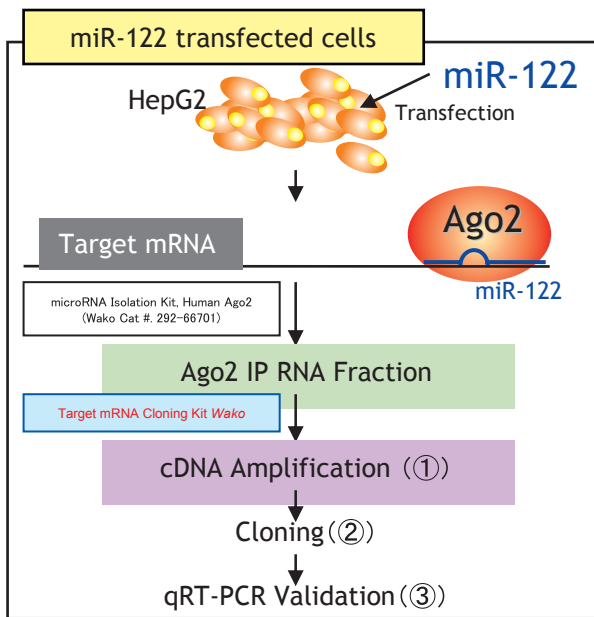
Outline of cDNA amplification of target mRNA**Product information**

	Code No.	Description	Size
New!!	298-68001	Target mRNA Cloning Kit <i>Wako</i>	10 reactions
New!!	291-70201	microRNA Isolation Kit, Human/Mouse Ago1	10 reactions
	292-66701	microRNA Isolation Kit, Human Ago2	10 reactions
	292-67301	microRNA Isolation Kit, Mouse Ago2	10 reactions
New!!	297-70301	microRNA Isolation Kit, Human Ago3	10 reactions
	298-67901	PCR Purification Kit <i>Wako</i>	30 reactions

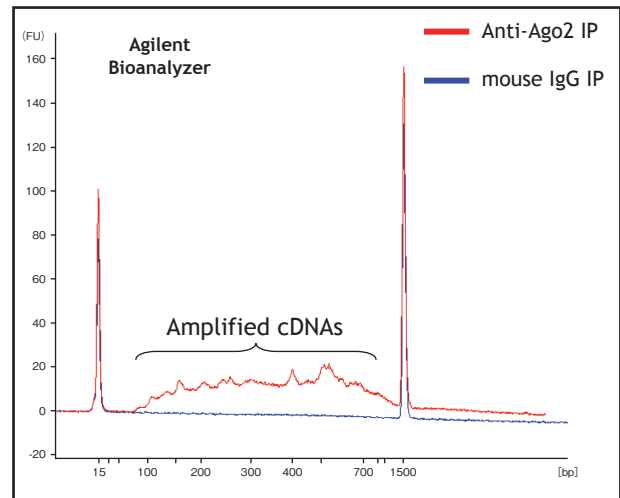
Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. Please visit our online catalog to search for other products from Wako ; www.e-reagent.com. This leaflet may contain products that cannot be exported to your country due to regulations. Please contact us.

Application (Investigation of miR-122 targeted mRNA)

Outline of Experiment



① Electrophoresis of the amplified cDNA



Specifically, cDNAs were amplified from Ago2 IP RNA fraction.

② Cloning of the amplified cDNA

cDNA clone harboring target sequences of miR-122

	Context Score Percentile (CSP ^{※1})	
	> 80	< 80
cDNA clones	PIGS, BRPF1, SLC7A5, PPP1R9A, SLC1A5, ALDOA, OBFS2B etc...	TACC1, DKF7p761F198, NMF6, FLJ14397, MRP63, SH3GL1, DIS3 etc...

※ 1 CSP : Context Score Percentile

The value of reasonability parameter as a target mRNA. (TargetScan)

※ 2 Control cells

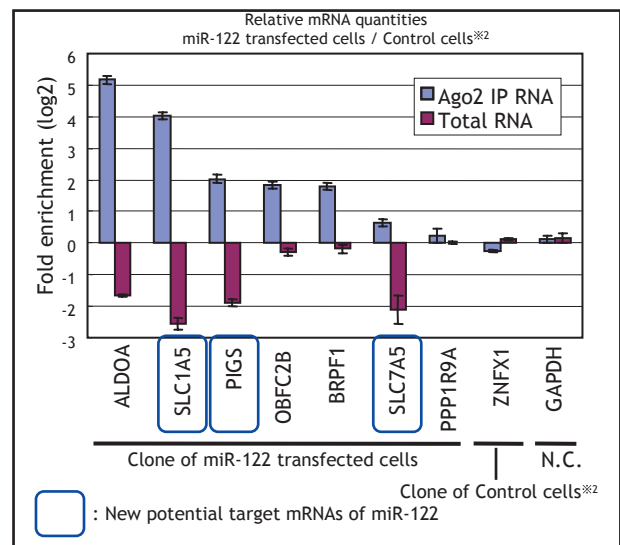
The HepG2 cells which were transfected GL3 (Luciferase) siRNA.

Published Application !!

Hayashida, Y., *et al.* : A useful approach to total analysis of RISC-associated RNA., *BMC Research Notes*, 2, 169 (2009)

③ Target mRNA validation (qRT-PCR)

Quantification of mRNA (CSP^{※1} of Clone ≥ 80)



ALDOA mRNA was already known as a target of miR-122.

Additionally, several mRNA were screened as new potential target mRNA of miR-122 in HepG2 cells.

