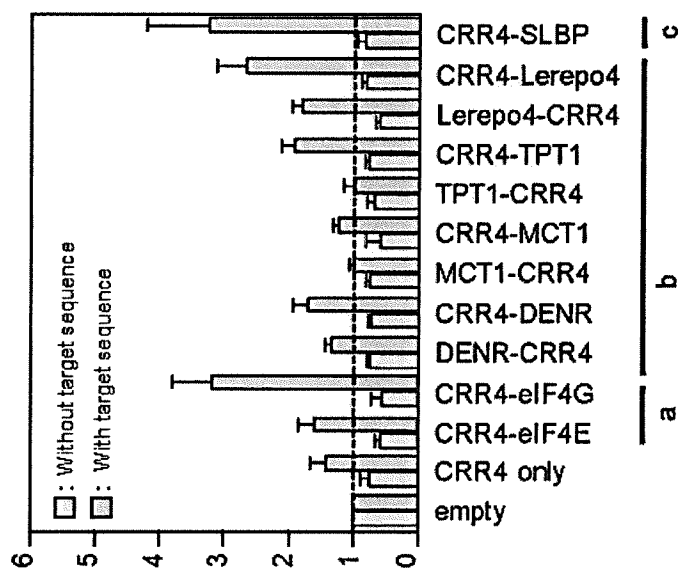


[Figure 5]

Effector domain	Function
1. Ribosome binding	
a. Translation-initiation related factor	
eIF4E	Cap binding protein
eIF4G	eIF4 scaffold
b. Ribosome-binding protein	
DENR	Density-regulated protein
MCT-1	Malignant T-cell amplified sequence 1, RNA binding (PUA domain)
TPT1	Translationally-controlled tumor protein
Lerepo4	Zinc finger CCHH-domain, putative polysome binding
2. Transport Activity	
SLBP	Related with stem-loop binding protein, translation factor of Histone, increase in export efficiency, etc.

- a. Translation initiation factor
- b. Ribosome-binding protein
- c. Nucleus-cytoplasm transport

1. Activation of translation by ribosome recruiting



[Figure 6]

Effector domain	Function
3. ER binding	
a. Anchor of ER membrane	
SEC61B	Subunit of composite for inserting protein into ER membrane
TRAP-alpha	Subunit of composite for inserting protein into ER membrane
SRAalpha	Subunit of composite for inserting protein into ER membrane
Dia1	Cytochrome b5 reductase 3
P180	Functions to pass mRNA to ribosome on ER?
b. ER retention signal	
KDEL (KEEL)	
c. Ersignal peptide	
MGWSCIIILFLVATATGAHS	Added to N-terminal, recognized by SRP, and localized on ER

- d. ER anchor translation initiation factor
- e. ER retention
- f. ER localized

2. Activation of translation by ER tethering

