|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S2 Table. Protein domains predicted in isoforms of the WCR, FAW, and SGSB core RNAi machinery** | | | | | | | | | | | | | | | | |
| **Species** | **Sequence** | **Domain** | **ArgoL1** | **ArgoL2** | **ArgoMid** | **ArgoN** | **DEAD** | **Dicer\_dimer** | **DSRM** | **Helicase\_C** | **PAZ** | **Piwi** | **ResIII** | **Ribonuclease III** | |
| **Pfam ID** | **PF08699** | **PF16488** | **PF16487** | **PF16486** | **PF00270** | **PF03368** | **PF00035** | **PF00271** | **PF02170** | **PF02171** | **PF04851** | **PF14622** | **PF00636** |
| WCR | Drosha-PA\* |  |  |  |  |  |  |  | 1 |  |  |  |  | 2 |  |
| Dicer-1-PA\* |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 2 |
| Dicer-2-PA\* |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 |  |  |  | 2 |
| Pasha-PA\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Loquacious-PB\* | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PA | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PE | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| R2D2-PA\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Argonaute 1-PC\* | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 1-PB | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PBa\* | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PBb | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PC | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| FAW | Drosha-PA\* |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 | 1 |
| Dicer-1-PA\* |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 2 |
| Dicer-2-PA\* |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  | 2 |
| Pasha-PA\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Pasha-PB |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Loquacious-PBa | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PBb\* | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PA | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PD | |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| R2D2-PAa\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| R2D2-PAb |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| R2D2-PAc |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Argonaute 1-PCa\* | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 1-PCb | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PEa\* | | 1 | 1 |  | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PEb | | 1 | 1 |  | 1 |  |  |  |  | 1 | 1 |  |  |  |
| SGSB | Drosha-PA\* |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 | 1 |
| Dicer-1-PA\* |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 2 |
| Dicer-2-PA\* |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  | 2 |
| Pasha-PAa\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Pasha-PAb |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Pasha-PAc |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| Loquacious-PB\* | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Loquacious-PA | |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| R2D2-PAa\* |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |
| R2D2-PAb |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| Argonaute 1-PC\* | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PB\* | | 1 | 1 |  | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Argonaute 2-PC | | 1 | 1 | 1 | 1 |  |  |  |  | 1 | 1 |  |  |  |
| Domains were predicted as described under "Methods". The translated sequences used for additional *in silico* analysis and for which expression data are displayed are marked by asterisks (\*). The reader interested in particular functions that have been described for these domains in other organisms beyond what is discussed within the main text may see the excellent 2013 review by Wilson & Doudna [7]. | | | | | | | | | | | | | | | | |