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| **S1 Table. Putative isoforms of the WCR, FAW, and SGSB core RNAi machinery** |
| **Gene Name** | ***Dme*** | **WCR** | **FAW** | **SGSB** |
| **Isoform designation** | **Peptide length** | **Accession number** | **Isoform designation** | **Peptide length** | **Accession number** | **Isoform designation** | **Peptide length** | **Accession number** | **Isoform designation** | **Peptide length** | **Accession number** |
| **Gene** | **Protein** |
| **Drosha** | RA | PA | 1327 | NM\_058088.4 | PA\* | 1248 | MG225416 | PA\* | 1401 | MG225429 | PA\* | 1338 | MG225445 |
| **Dicer-1** | RA | PA | 2249 | NM\_079729.3 | PA\* | 1840 | MG225417 | PA\* | 2175 | MG225430 | PA\* | 2070 | MG225446 |
| **Dicer-2** | RA | PA | 1722 | NM\_079054.5 | PA\* | 1624 | MG225418 | PA\* | 1685 | MG225431 | PA\* | 1619 | MG225447 |
| RB | PB | 1721 |
| **Pasha** | RA, RC | PA, PC | 642 | NM\_143622.3 | PA\* | 551 | MG225419 | PA\* | 693 | MG225432 | PAa\* | 598 | MG225448 |
| PAb | 557 | MG225449 |
| PAc | 562 | MG225450 |
| RB | PB | 580 | NM\_001276220.1 | - | - | - | PB | 529 | MG225433 | - | - | - |
| **Loquacious** | RB | PB | 465 | NM\_135802.4 | PB\* | 389 | MG225420 | PBa | 384 | MG225434 | PB\* | 354 | MG225451 |
| PBb\* | 380 | MG225435 |
| RF | PF | 464 | NM\_001298965.1 | - | - | - | - | - | - | - | - | - |
| RA | PA | 419 | NM\_165041.3 | PA | 338 | MG225421 | PA | 335 | MG225436 | PA | 305 | MG225452 |
| RE | PE | 418 | NM\_001298964.1 | PE | 324 | MG225422 | - | - | - | - | - | - |
| RC | PC | 383 | NM\_001038814.3 | - | - | - | - | - | - | - | - | - |
| RD | PD | 359 | NM\_001201867.2 | - | - | - | PD | 262 | MG225437 | - | - | - |
| **R2D2** | RA, RB, RC | PA, PB, PC | 311 | NM\_135308.2 | PA\* | 332 | MG225423 | PAa\* | 331 | MG225438 | PAa\* | 317 | MG225453 |
| PAb | 324 | MG225439 | PAb | 313 | MG225454 |
| PAc | 323 | MG225440 |
| **Argonaute 1** | RC, RA, RD | PC, PA, PD | 984 | NM\_166021.2 | PC\* | 937 | MG225424 | PCa\* | 912 | MG225441 | PC\* | 921 | MG225455 |
| PCb | 928 | MG225442 |
| RB | PB | 950 | NM\_079010.4 | PB | 916 | MG225425 | - | - | - | - | - | - |
| **Argonaute 2** | RB | PB | 1214 | NM\_140518.3 | PBa\* | 1236 | MG225426 | - | - | - | PB\* | 1196 | MG225456 |
| PBb | 1208 | MG225427 |
| RC | PC | 1217 | NM\_168626.3 | PC | 1080 | MG225428 | - | - | - | PC | 1044 | MG225457 |
| RE | PE | 787 | NM\_001274953.1 | - | - | - | PEa\* | 1094 | MG225443 | - | - | - |
| PEb | 969 | MG225444 |
| Accession numbers for the coding nucleotide sequences and parameters of translated peptide sequences for each insect are shown. The translated sequences used for additional *in silico* analysis and for which expression data are displayed are marked by asterisks (\*); the specific *Dme* isoform associated with expression data is unknown. |