**S2 Table.** Anterograde IFT velocities in ASH/ASI cilia.

|  |  |  |  |
| --- | --- | --- | --- |
| Fusion proteina | Strainb | Adultage | Mean anterograde velocity (m/sec ± SD)c |
| Middle segment | n/N | Distal segment | n/N |
| KAP-1::GFP | WT | 1d | 0.73 ± 0.10 | 157/8 | - | - |
| KAP-1::GFP | WT | 7d | 0.71 ± 0.12 | 162/8 | - | - |
| KAP-1::GFP | *osm-6* | 7d | 0.70 ± 0.12 | 168/9 | - | - |
| OSM-3::GFP | WT | 1d | 0.69 ± 0.12 | 162/8 | 1.06 ± 0.16 | 150/8 |
| OSM-3::GFP | WT | 7d | 0.75 ± 0.10d | 221/8 | 1.04 ± 0.18 | 180/10 |
| OSM-3::GFP | *osm-6* | 7d | 0.67 ± 0.15e | 159/12 | ND | ND |

aFusion proteins were expressed under the *sra-6* promoter in the ASH/ASI neurons.

bThe *osm-6(p811)* allele was used.

cIFT could not be quantified in the severely truncated cilia of 1d old *osm-6* mutants. Partial elongation of cilia in 7d old *osm-6* animals allowed for IFT analyses only in the middle segments.

dindicates different from corresponding 1d old wild-type at *P*<0.05.

eindicates different from 7d old wild-type at corresponding age at *P*<0.001.

Analyses were performed in adult animals grown at 20°C. ND: not determined; n: number of GFP particles; N: number of cilia.