**Table S2. Sialyltransferases source detail**

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| --- | --- | --- | --- | --- |
| **Protein** | **Clone name1** | **Species** | **Habitat/Temperature** | **RNA source** |
| ST3Gal4 | hST3 A1 | *Homo sapiens* | Homoeothermic - 37oC | HepG2 cell line |
| ST3Gal4 | hST3 A2 | *Homo sapiens* | Homoeothermic - 37oC | HepG2 cell line |
| ST3Gal4 | zST3 | *Danio rerio* | Poikilothermic – 18 - 28oC (limits: 6 - 41oC) | Head |
| ST6Gal1 | hST6 | *Homo sapiens* | Homoeothermic - 37oC | HepG2 cell line |
| ST6Gal1 | hST6 B1 | *Homo sapiens* | Homoeothermic - 37oC | HepG2 cell line |
| ST6Gal1 | hST6 A5 | *Homo sapiens* | Homoeothermic - 37oC | HepG2 cell line |
| ST6Gal1 | zST6 | *Danio rerio* | Poikilothermic – 18 - 28oC (limits: 6 - 41oC) | Head |
| ST6Gal1 | rST6 | *Rattus norvegicus* | Homoeothermic - 37oC | Brain |
| ST6Gal1 | sST6 | *Gasterosteus aculeatus* | Poikilothermic – Sea/Freshwater 4 - 22oC (limits: 0 - 29oC) | Head |
| ST6Gal1 | fST6 | *Takifugu rubripes* | Poikilothermic- Seawater 15 - 24oC (limits: 0- 30oC) | Head |
| ST6Gal1 | cST6 | *Gallus gallus* | Homoeothermic - 42oC | Spleen |
| ST6Gal2 | hST6Gal2 | *Homo sapiens* | Homoeothermic - 37oC | RPMI cell line |

1 The clone name (ST6 for ST6Gal1, ST3 for ST3Gal4) is prefixed by the species (h, human; z, zebrafish; r, rat; s, stickleback; f, fugu; c, chicken) and suffixes refer to different forms.