**Table EV2. List of *AGO1*-derived peptides detected in proteomes of mouse organs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Peptide sequence** | **Source** | **Score** | **Reference** |
| AVQVHQDTLR | Mouse brain | 60.518 | (Sharma K, et al 2015) |
| DGVPEGQLPQILHYELLAIR | Mouse brain | 44.729 |
| ELLIQFYK | Mouse brain | 73.039 |
| EVVEYMVQHFKPQIFGDR | Mouse brain | 69.148 |
| HTYLPLEVCNIVAGQR | Mouse brain | 100.4 |
| KLTDNQTSTMIK | Mouse brain | 179.19 |
| LGGINNILVPHQR | Mouse brain | 50.805 |
| LLANYFEVDIPK | Mouse brain | 94.297 |
| LTDNQTSTMIK | Mouse brain | 78.939 |
| NASYNLDPYIQEFGIK | Mouse brain | 133.15 |
| RPASHQTFPLQLESGQTVECTVAQYFK | Mouse brain | 116.24 |
| VLPAPILQYGGR | Mouse brain | 81.594 |
| WLAIVSWR | Mouse brain | 60.682 |
| YAQGADSVEPMFR | Mouse brain | 128.03 |
| YPHLPCLQVGQEQK | Mouse brain | 98.754 |
| YRVCNVTR | Mouse brain | 44.753 |
| QNAVTSLDRR**#** | Mouse brain | 26.384 |
| AVQVHQDTLR | Mouse muscle | 108.47 | (Deshmukh AS, et al 2015) |
| DAGMPIQGQPCFCK | Mouse muscle | 119.16 |
| ELLIQFYK | Mouse muscle | 132.96 |
| HTYLPLEVCNIVAGQR | Mouse muscle | 185.95 |
| LGGINNILVPHQR | Mouse muscle | 77.867 |
| TPVYAEVK | Mouse muscle | 74.301 |
| TSPQTLSNLCLK | Mouse muscle | 59.067 |
| YAQGADSVEPMFR | Mouse muscle | 130.01 |
| TMYFANR**#** | Mouse muscle | 16.154 |
| AVQVHQDTLRTM(ox)YFAYR**#$** | Mouse liver | 55.885 | (Azimifar SB, et al 2014) |

**#**generated after translational readthrough; specific to Ago1x isoform.

**$** this peptide was detected in five different mouse liver samples.