**Table 5:** Thirty-two (32) of the 94 FMRP targets likely to be translated locally.

|  |  |
| --- | --- |
| Cell Growth/Cytoskeleton | |
| CRMP1 | collapsin response mediator protein 1 |
| MAP1B | microtubule-associated protein 1B |
| ACTG1 | Actin, gamma 1 |
| SPTBN1 | spectrin, beta, non-erythrocytic 1 |
| TUBB | tubulin, beta class I |
| TUBB2C | tubulin, beta 2C |
| TUBB2B | tubulin, beta 2B class IIb |
| TUBB3 | tubulin, beta 3 class III |
| Transport of Ions/Amines (Integral membrane proteins) | |
| ATP6V1B2 (VATB) | ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B2 |
| ATP2A2 (SERCA2) | ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 |
| ATP1B1 | ATPase, Na+/K+ transporting, beta 1 polypeptide |
| ATP1A1 | ATPase, Na+/K+ transporting, alpha 1 polypeptide |
| LOC100857345 | V-type proton ATPase subunit d 1-like |
| LOC100858165 | V-type proton ATPase subunit d 1-like |
| Metabolism | |
| HK1 | hexokinase 1 |
| ACO2 | aconitase 2, mitochondrial |
| Protein Modification | |
| USP5 | ubiquitin specific peptidase 5 (isopeptidase T) |
| Trafficking of RNA, proteins or vesicles | |
| KIF5C | kinesin family member 5C |
| DYNC1H1 | dynein, cytoplasmic 1, heavy chain 1 |
| DNM1 | dynamin 1 |
| ARF1 | ADP-ribosylation factor 1 |
| AMPH | amphiphysin |
| SNAP25 | synaptosomal-associated protein, 25kDa |
| SYNJ1 | synaptojanin 1 |
| NSF | N-ethylmaleimide-sensitive factor |
| SNAP91 | synaptosomal-associated protein, 91kDa homolog (mouse) |
| Signaling | |
| CALM | calmodulin 2 (phosphorylase kinase, delta) |
| MBP | myelin basic protein |
| NDRG4 | N-myc downstream regulated gene family member 4 |
| Translation | |
| EEF2 | eukaryotic translation elongation factor 2 |
| EEF1A1 | eukaryotic translation elongation factor 1 alpha 1 |
| EEF1A2 | eukaryotic translation elongation factor 1 alpha 2 |