

## Additional File 8

### Regeneration Associated Genes (RAGS) and Cell Survival and Neuroprotective Genes (CsNp)

| Probe ID | Gene Symbol           | Gene Title                                                                                                                                                                                                            |
|----------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10756799 | Actb                  | actin, beta                                                                                                                                                                                                           |
| 10726550 | Adam8                 | a disintegrin and metallopeptidase domain 8                                                                                                                                                                           |
| 10930539 | Adcyap1               | adenylate cyclase activating polypeptide 1                                                                                                                                                                            |
| 10775866 | Areg                  | amphiregulin                                                                                                                                                                                                          |
| 10702214 | Arg1                  | arginase 1, liver                                                                                                                                                                                                     |
| 10846253 | Atf2                  | activating transcription factor 2                                                                                                                                                                                     |
| 10770710 | Atf3                  | activating transcription factor 3                                                                                                                                                                                     |
| 10839974 | Atrn                  | atractin                                                                                                                                                                                                              |
| 10822075 | Basp1                 | brain abundant, membrane attached signal protein 1                                                                                                                                                                    |
| 10785063 | Bmp1                  | bone morphogenetic protein 1                                                                                                                                                                                          |
| 10857064 | Bmp10                 | bone morphogenetic protein 10                                                                                                                                                                                         |
| 10840138 | Bmp2                  | bone morphogenetic protein 2                                                                                                                                                                                          |
| 10775573 | Bmp3                  | bone morphogenetic protein 3                                                                                                                                                                                          |
| 10782891 | Bmp4                  | bone morphogenetic protein 4                                                                                                                                                                                          |
| 10911711 | Bmp5                  | bone morphogenetic protein 5                                                                                                                                                                                          |
| 10797949 | Bmp6                  | bone morphogenetic protein 6                                                                                                                                                                                          |
| 10852106 | Bmp7                  | bone morphogenetic protein 7                                                                                                                                                                                          |
| 10879547 | Bmp8a                 | bone morphogenetic protein 8a                                                                                                                                                                                         |
| 10734761 | Ccdc42                | coiled-coil domain containing 42                                                                                                                                                                                      |
| 10847761 | Cd44                  | CD44 antigen                                                                                                                                                                                                          |
| 10842469 | Cebp                  | CCAAT/enhancer binding protein (C/EBP), beta                                                                                                                                                                          |
| 10712829 | Coro1b                | coronin, actin-binding protein, 1B                                                                                                                                                                                    |
| 10923929 | Creb1                 | cAMP responsive element binding protein 1                                                                                                                                                                             |
| 10795616 | Crem                  | cAMP responsive element modulator                                                                                                                                                                                     |
| 10780990 | Ctsb                  | cathepsin B                                                                                                                                                                                                           |
| 10800919 | Egr1                  | early growth response 1                                                                                                                                                                                               |
| 10878712 | Elavl4                | ELAV (embryonic lethal, abnormal vision, Drosophila)-like 4 (Hu antigen D)                                                                                                                                            |
| 10813172 | Fgf10                 | fibroblast growth factor 10                                                                                                                                                                                           |
| 10862867 | Gadd45a               | growth arrest and DNA-damage-inducible 45 alpha                                                                                                                                                                       |
| 10727321 | Gal                   | galanin                                                                                                                                                                                                               |
| 10739788 | Galr2                 | galanin receptor 2                                                                                                                                                                                                    |
| 10751218 | Gap43                 | growth associated protein 43                                                                                                                                                                                          |
| 10781410 | Gfra2                 | glial cell line derived neurotrophic factor family receptor alpha 2                                                                                                                                                   |
| 10835775 | Gsn                   | gelsolin                                                                                                                                                                                                              |
| 10748962 | Hn1                   | hematological and neurological expressed sequence 1                                                                                                                                                                   |
| 10761128 | Hspb1                 | heat shock protein 1                                                                                                                                                                                                  |
| 10928563 | Icdh1                 | isocitrate dehydrogenase 1 (NADP+), soluble                                                                                                                                                                           |
| 10702996 | Igf2r                 | insulin-like growth factor 2 receptor                                                                                                                                                                                 |
| 10778390 | Igfbp3                | insulin-like growth factor binding protein 3                                                                                                                                                                          |
| 10899465 | Igfbp6                | insulin-like growth factor binding protein 6                                                                                                                                                                          |
| 10859799 | Il6                   | interleukin 6                                                                                                                                                                                                         |
| 10709629 | Ilk                   | integrin linked kinase                                                                                                                                                                                                |
| 10767095 | Inhbb                 | inhibin beta-B                                                                                                                                                                                                        |
| 10836849 | Iiga6                 | integrin, alpha 6                                                                                                                                                                                                     |
| 10893267 | Iiga7                 | integrin alpha 7                                                                                                                                                                                                      |
| 10812021 | Igfb1                 | integrin beta 1 (fibronectin receptor beta)                                                                                                                                                                           |
| 10878112 | Jun                   | Jun oncogene (Jun), mRNA.                                                                                                                                                                                             |
| 10940195 | L1cam                 | L1 cell adhesion molecule                                                                                                                                                                                             |
| 10749495 | Lgals3bp              | lectin, galactoside-binding, soluble, 3 binding protein                                                                                                                                                               |
| 10843656 | Lhx3                  | LIM homeobox protein 3                                                                                                                                                                                                |
| 10706320 | Lim2                  | lens intrinsic membrane protein 2                                                                                                                                                                                     |
| 10760646 | Mapk                  | v-maf musculoaponeurotic fibrosarcoma oncogene family, protein K (avian)                                                                                                                                              |
| 10820835 | Map1b                 | microtubule-associated protein 1b                                                                                                                                                                                     |
| 10872336 | Marcks11              | MARCKS-like 1                                                                                                                                                                                                         |
| 10829649 | Mif                   | macrophage migration inhibitory factor                                                                                                                                                                                |
| 10839135 | Mtap1a                | microtubule-associated protein 1 A                                                                                                                                                                                    |
| 10855506 | Npy                   | neuropeptide Y                                                                                                                                                                                                        |
| 10883785 | Odc1                  | ornithine decarboxylase 1                                                                                                                                                                                             |
| 10937362 | Pak3                  | p21 (CDKN1A)-activated kinase 3                                                                                                                                                                                       |
| 10908347 | Pde4a                 | phosphodiesterase 4A, cAMP specific                                                                                                                                                                                   |
| 10790921 | Pde4c                 | phosphodiesterase 4C, cAMP specific                                                                                                                                                                                   |
| 10814726 | Pik3ca LOC685590      | phosphatidylinositol 3-kinase, catalytic, alpha polypeptide   similar to Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha isoform (PI3-kinase p110 subunit alpha) (PtdIns-3-kinase p110) (PI3K) |
| 10798096 | Psmg4 Pde4b LOC682709 | proteasome (prosome, macropain) assembly chaperone 4   phosphodiesterase 4B, cAMP specific   hypothetical protein LOC682709                                                                                           |
| 10861835 | Ptn                   | pleiotrophin                                                                                                                                                                                                          |
| 10816941 | Rab13                 | RAB13, member RAS oncogene family                                                                                                                                                                                     |
| 10729336 | RGD1563350            | similar to Fatty acid-binding protein, epidermal (E-FABP)                                                                                                                                                             |
| 10882752 | Rhoq                  | ras homolog gene family, member Q                                                                                                                                                                                     |
| 10889415 | Sox11                 | SRY-box containing gene 11                                                                                                                                                                                            |
| 10824732 | Sprr1a                | small proline-rich protein 1A                                                                                                                                                                                         |
| 10874019 | Srm                   | spermidine synthase                                                                                                                                                                                                   |
| 10747506 | Stat3                 | signal transducer and activator of transcription 3                                                                                                                                                                    |
| 10852531 | Stmn3                 | stathmin-like 3                                                                                                                                                                                                       |
| 10781197 | Stmn4                 | stathmin-like 4                                                                                                                                                                                                       |
| 10705213 | Tgfb1                 | transforming growth factor, beta 1                                                                                                                                                                                    |
| 10770577 | Tgfb2                 | transforming growth factor, beta 2                                                                                                                                                                                    |
| 10891303 | Tgfb3                 | transforming growth factor, beta 3                                                                                                                                                                                    |
| 10863282 | Tmsb10                | thymosin, beta 10                                                                                                                                                                                                     |
| 10819874 | Tnni3k                | TNNI3 interacting kinase                                                                                                                                                                                              |
| 10898192 | Tspo                  | translocator protein (Tspo), mRNA.                                                                                                                                                                                    |
| 10907086 | Tuba1a                | tubulin, alpha 1A                                                                                                                                                                                                     |
| 10808702 | Tubb3                 | tubulin, beta 3                                                                                                                                                                                                       |
| 10772705 | Ugdh                  | UDP-glucose dehydrogenase                                                                                                                                                                                             |
| 10757599 | Ywhag                 | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide                                                                                                                             |
| 10777829 | Ywhah                 | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide                                                                                                                               |
| 10889360 | Ywhaq                 | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide                                                                                                                             |

