Supplemental Material

Mutant Huntingtin Protein Interaction Map Implicates Dysregulation of Multiple Cellular Pathways in Neurodegeneration of Huntington’s Disease
Supplementary Figure 1. Gene ontology analysis of proteins interacting exclusively with mutant Htt, and those interacting exclusively with wild-type Htt. Gene ontology (GO) analysis of biological functions of proteins that interact only with mutant Htt is illustrated in (a). GO analysis proteins interacting only with wild-type Htt are shown in (b).

(a) Mutant Htt only proteins GO terms

| GO ID | Pathway, biological process | observed gene count | GO gene count | false discovery rate |
|-------|-----------------------------|--------------------|---------------|---------------------|
| GO:0005987 | Cellular process | 204 | 15354 | 7.08E-06 |
| GO:0190199 | Cellular response to nitrogen compound | 30 | 643 | 7.79E-05 |
| GO:0006803 | Transport | 91 | 452 | 3.85E-03 |
| GO:051234 | Establishment of localization | 97 | 447 | 2.05E-07 |
| GO:051461 | Cellular localization | 71 | 305 | 3.33E-03 |

(b) Wild-type Htt only proteins GO terms

| GO ID | Pathway, biological process | observed gene count | GO gene count | false discovery rate |
|-------|-----------------------------|--------------------|---------------|---------------------|
| GO:0005987 | Cellular process | 204 | 15354 | 7.08E-06 |
| GO:0190199 | Cellular response to nitrogen compound | 30 | 643 | 7.79E-05 |
| GO:0006803 | Transport | 91 | 452 | 3.85E-03 |
| GO:051234 | Establishment of localization | 97 | 447 | 2.05E-07 |
| GO:051461 | Cellular localization | 71 | 305 | 3.33E-03 |
Supplementary Figure 2. N-terminal fragment lengths of wt Htt and mutant Htt used to identify interacting proteins. The number of published articles reporting use of N-terminal Htt fragments of various lengths is illustrated for studies of wt Htt interactors (a) and mutant Htt interactors (b).