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| **Categories** | **Disease or Functional Annotations** | **Molecules** |
| Cancer | Carcinoma | ANXA5, CNGB1, DES, FPGT, GRIA4, IQCK, LDHA, PDIA3, PFN1, SAMD4B, SUCO, TAGLN, TUBB3, UACA, VIM, VWA3B |
| Neurological Disease | Progressive motor neuropathy | ANXA5, LDHA, PDIA3, PFN1, VIM |
|  | Movement Disorders | LDHA, PFN1, TUBB3, VIM, VWA3B |
|  | Tauopathy | PDIA3, TAGLN, TUBB3, VIM |
|  | Neuromuscular disease | LDHA, PDIA3, PFN1, VIM |
|  | Disorder of basal ganglia | LDHA, PFN1, TUBB3, VIM |
|  | Amyotrophic lateral sclerosis | ANXA5, PFN1, VIM |
|  | Paralysis | PFN1, TUBB3 |
| Cardiovascular Disease | Atherosclerosis | GRIA4, PFN1, TUBB3, VWA3B |
|  | Peripheral vascular disease | SUCO, TUBB3, VIM |
|  | Adhesion of vascular endothelial cells | ANXA5, VIM |
|  | Formation of blood vessels | LDHA, TUBB3 |
|  | Hypertrophy of the heart | DES, PFN1 |
|  | Coronary artery disease | GRIA4, TUBB3, VWA3B |
| Endocrine System Disorders | Experimentally induced diabetes | ANXA5, CNGB1 |
| Carbohydrate Metabolism | Glycolysis of cells | LDHA, PFN1 |
| Inflammatory Response | Inflammation of lung | ANXA5, PDIA3, UACA |
| Connective Tissue Disorders | Scleroderma | PDIA3, VIM |
| Cellular Movement | Cell movement of breast cancer cell lines | LDHA, PFN1, VIM |
| Cell-To-Cell Signaling and Interaction | Phagocytosis of cells | ANXA5, PFN1, VIM |
|  | Phagocytosis of tumor cell lines | PFN1, VIM |
| Cellular Function and Maintenance | Endocytosis by eukaryotic cells | ANXA5, PFN1, VIM |
| Cellular Assembly and Organization | Organization of cytoskeleton | DES, PDIA3, PFN1, TUBB3, VIM |
|  | Formation of intermediate filaments | DES, VIM |
|  | Organization of intermediate filaments | DES, VIM |
| Protein Synthesis | Polymerization of protein | ANXA5, CNGB1, PFN1 |
| Cell Morphology | Shape change of breast cancer cell lines | ANXA5, PFN1 |
| Molecular Transport, Protein Trafficking | Import of protein | PDIA3, UACA |
| Development | Formation of muscle | ANXA5, DES, VIM |
|  | Development of central nervous system cells | SAMD4B, VIM |
|  | Guidance of axons | PDIA3, TUBB3 |
| Organismal Functions | Muscle weakness | DES, PFN1 |

S1 Table.