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| --- | --- | --- |
| **Supplemental Table S4:** Bioinformatics analysis of differential abundance protein species (DAPS) identified by two-dimensional electrophoresis (2-DE) | | |
| **Functional-Categories** | **Number of DAPs** | **DAPs No.** |
| Posttranslational modification, protein turnover, chaperones | 13 | 1: XP\_002526446.1, 3: XP\_002523404.1, 6: XP\_002510253.1, 13: XP\_002513928.1, 18: XP\_002528199.1, 20: XP\_002518324.1, 21: XP\_002509580.1, 37: XP\_002523376.1, 50: XP\_002526500.1, 53: XP\_002523376.1, 59: XP\_002516232.1, 62: XP\_002523979.1, 68: XP\_002527736.1 |
| Amino acid transport and metabolism | 7 | 11: XP\_015572366.1, 41: XP\_002517625.1, 55: XP\_002511200.1, 60: XP\_002526510.1, 78: XP\_002525552.1, 80: XP\_002517071.1, 91: XP\_002512253.1 |
| Secondary metabolites biosynthesis, transport and catabolism | 1 | 12: XP\_002522586.1 |
| Nucleotide repair and metabolism | 1 | 34: XP\_002520127.1 |
| Protein, transport synthesis and catabolism | 10 | 16: XP\_002512288.1, 24: XP\_002525204.1, 28: XP\_002515980.1, 32: XP\_002527995.1, 40: XP\_002519500.1, 47: XP\_002527995.1, 57: XP\_002518856.1, 64: XP\_002521598.1, 89: XP\_002532823.1, 90: XP\_015583123.1 |
| Intracellular transport | 3 | 5: XP\_002530503.1, 38: XP\_002514900.1, 52: XP\_002530503.1 |
| Energy production and conversion | 18 | 4: XP\_002524206.1, 10: XP\_015577917.1, 14: XP\_002522386.1, 23: XP\_002510911.1, 27: XP\_002528522.1, 39: XP\_002522386.1, 42: XP\_002513353.1, 46: XP\_015575717.1, 58: XP\_002529248.1, 61: XP\_002528798.1, 70: XP\_002521293.1, 71: XP\_002528517.1, 74: XP\_002531508.1, 86: XP\_002528580.1, 87: XP\_002524262.1, 88: XP\_015582143.1, 93: XP\_002528580.1, 96: XP\_002522546.1 |
| Transcription ribosomal structure and biogenesis | 6 | 48: XP\_002513523.1, 63: XP\_015584449.1, 79: XP\_002516930.1, 85: XP\_002526922.1, 94: XP\_002515309.1, 95: XP\_002512288.1 |
| Signal transduction mechanisms | 1 | 29: XP\_002531606.1 |
| Cytoskeleton | 1 | 83: XP\_002524472.1 |
| Hormone metabolism | 1 | 69: XP\_002522194.1 |
| Unknown | 10 | 2: XP\_002534347.2, 15: XP\_002530987.1, 22: XP\_002524159.1, 25: XP\_015574043.1, 26: XP\_002533008.1, 30: XP\_015571753.1, 31: XP\_002532190.2, 33: XP\_002512222.1, 49: XP\_002521740.1, 67: XP\_002533607.1, |