Supplementary Table 2. Screen of proteins interacted with Bnip3 in hypoxia-stimulated LX-2 cells with mass spectrometry.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Accession** | **Description** | **Score** | **Coverage** | **# Proteins** | **# Unique Peptides** | **# Peptides** | **# PSMs** | **# AAs** | **MW [kDa]** | **calc. pI** |
| P38646 | Stress-70 protein, mitochondrial OS=Homo sapiens GN=HSPA9 PE=1 SV=2 - [GRP75\_HUMAN] | 127.80  | 34.32  | 5.00  | 18.00  | 18.00  | 60.00  | 679.00  | 73.63  | 6.16  |
| P35579 | Myosin-9 OS=Homo sapiens GN=MYH9 PE=1 SV=4 - [MYH9\_HUMAN] | 98.57  | 18.11  | 7.00  | 20.00  | 27.00  | 54.00  | 1960.00  | 226.39  | 5.60  |
| P60709 | Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1 - [ACTB\_HUMAN] | 90.79  | 50.13  | 21.00  | 5.00  | 13.00  | 47.00  | 375.00  | 41.71  | 5.48  |
| P68032 | Actin, alpha cardiac muscle 1 OS=Homo sapiens GN=ACTC1 PE=1 SV=1 - [ACTC\_HUMAN] | 63.18  | 27.85  | 14.00  | 1.00  | 9.00  | 34.00  | 377.00  | 41.99  | 5.39  |
| A0A0C4DGB6 | Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=1 - [A0A0C4DGB6\_HUMAN] | 49.79  | 9.77  | 8.00  | 6.00  | 6.00  | 23.00  | 604.00  | 69.18  | 6.37  |
| P11142 | Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1 - [HSP7C\_HUMAN] | 47.40  | 24.15  | 19.00  | 11.00  | 13.00  | 28.00  | 646.00  | 70.85  | 5.52  |
| P11021 | 78 kDa glucose-regulated protein OS=Homo sapiens GN=HSPA5 PE=1 SV=2 - [GRP78\_HUMAN] | 40.18  | 15.90  | 3.00  | 6.00  | 8.00  | 21.00  | 654.00  | 72.29  | 5.16  |
| P35580 | Myosin-10 OS=Homo sapiens GN=MYH10 PE=1 SV=3 - [MYH10\_HUMAN] | 36.44  | 4.40  | 3.00  | 1.00  | 8.00  | 20.00  | 1976.00  | 228.86  | 5.54  |
| P62805 | Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2 - [H4\_HUMAN] | 26.76  | 40.78  | 1.00  | 4.00  | 4.00  | 12.00  | 103.00  | 11.36  | 11.36  |
| B0YJC4 | Vimentin OS=Homo sapiens GN=VIM PE=1 SV=1 - [B0YJC4\_HUMAN] | 21.08  | 9.74  | 5.00  | 4.00  | 4.00  | 9.00  | 431.00  | 49.62  | 5.25  |
| O60814 | Histone H2B type 1-K OS=Homo sapiens GN=HIST1H2BK PE=1 SV=3 - [H2B1K\_HUMAN] | 19.85  | 19.05  | 16.00  | 2.00  | 2.00  | 10.00  | 126.00  | 13.88  | 10.32  |
| F8W1R7 | Myosin light polypeptide 6 OS=Homo sapiens GN=MYL6 PE=1 SV=1 - [F8W1R7\_HUMAN] | 15.18  | 25.52  | 12.00  | 3.00  | 3.00  | 7.00  | 145.00  | 16.28  | 4.65  |
| P19105 | Myosin regulatory light chain 12A OS=Homo sapiens GN=MYL12A PE=1 SV=2 - [ML12A\_HUMAN] | 14.45  | 29.82  | 5.00  | 5.00  | 5.00  | 7.00  | 171.00  | 19.78  | 4.81  |
| F6RP06 | BCL2/adenovirus E1B 19 kDa protein-interacting protein 3 (Fragment) OS=Homo sapiens GN=BNIP3 PE=1 SV=1 - [F6RP06\_HUMAN] | 14.34  | 11.87  | 3.00  | 3.00  | 3.00  | 7.00  | 219.00  | 23.71  | 7.20  |
| P68363 | Tubulin alpha-1B chain OS=Homo sapiens GN=TUBA1B PE=1 SV=1 - [TBA1B\_HUMAN] | 12.20  | 14.41  | 18.00  | 5.00  | 5.00  | 8.00  | 451.00  | 50.12  | 5.06  |
| A0A087WVQ9 | Elongation factor 1-alpha 1 OS=Homo sapiens GN=EEF1A1 PE=1 SV=1 - [A0A087WVQ9\_HUMAN] | 11.87  | 15.65  | 7.00  | 5.00  | 5.00  | 7.00  | 441.00  | 47.85  | 9.03  |
| P62263 | 40S ribosomal protein S14 OS=Homo sapiens GN=RPS14 PE=1 SV=3 - [RS14\_HUMAN] | 9.46  | 15.89  | 3.00  | 2.00  | 2.00  | 4.00  | 151.00  | 16.26  | 10.05  |
| Q5ST81 | Tubulin beta chain OS=Homo sapiens GN=TUBB PE=1 SV=1 - [Q5ST81\_HUMAN] | 9.41  | 17.74  | 22.00  | 4.00  | 4.00  | 5.00  | 372.00  | 41.72  | 4.91  |
| J3JS69 | 40S ribosomal protein S18 OS=Homo sapiens GN=RPS18 PE=1 SV=1 - [J3JS69\_HUMAN] | 7.24  | 24.39  | 2.00  | 2.00  | 2.00  | 5.00  | 82.00  | 9.76  | 11.41  |
| Q5JVD1 | Centriolin OS=Homo sapiens GN=CNTRL PE=1 SV=1 - [Q5JVD1\_HUMAN] | 5.45  | 1.01  | 2.00  | 1.00  | 1.00  | 3.00  | 994.00  | 113.69  | 5.21  |
| H0YKX5 | Tropomyosin alpha-1 chain (Fragment) OS=Homo sapiens GN=TPM1 PE=1 SV=1 - [H0YKX5\_HUMAN] | 4.81  | 16.20  | 20.00  | 1.00  | 2.00  | 4.00  | 142.00  | 16.36  | 4.74  |
| P39019 | 40S ribosomal protein S19 OS=Homo sapiens GN=RPS19 PE=1 SV=2 - [RS19\_HUMAN] | 4.42  | 15.17  | 6.00  | 2.00  | 2.00  | 2.00  | 145.00  | 16.05  | 10.32  |
| Q8IYB1 | Protein MB21D2 OS=Homo sapiens GN=MB21D2 PE=1 SV=3 - [M21D2\_HUMAN] | 4.16  | 4.28  | 1.00  | 2.00  | 2.00  | 2.00  | 491.00  | 55.76  | 7.03  |
| P30050 | 60S ribosomal protein L12 OS=Homo sapiens GN=RPL12 PE=1 SV=1 - [RL12\_HUMAN] | 4.03  | 5.45  | 1.00  | 1.00  | 1.00  | 2.00  | 165.00  | 17.81  | 9.42  |
| C9J0D1 | Histone H2A OS=Homo sapiens GN=H2AFV PE=1 SV=1 - [C9J0D1\_HUMAN] | 3.87  | 13.11  | 20.00  | 2.00  | 2.00  | 2.00  | 122.00  | 13.16  | 9.99  |
| H0YBC7 | BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like (Fragment) OS=Homo sapiens GN=BNIP3L PE=1 SV=1 - [H0YBC7\_HUMAN] | 3.57  | 8.11  | 2.00  | 1.00  | 1.00  | 3.00  | 185.00  | 20.08  | 5.71  |
| V9GYG0 | ADP/ATP translocase 1 OS=Homo sapiens GN=SLC25A4 PE=1 SV=1 - [V9GYG0\_HUMAN] | 2.34  | 5.77  | 5.00  | 1.00  | 1.00  | 1.00  | 208.00  | 22.87  | 9.54  |
| A0A0C4DGC5 | Prelamin-A/C (Fragment) OS=Homo sapiens GN=LMNA PE=1 SV=1 - [A0A0C4DGC5\_HUMAN] | 2.33  | 4.23  | 3.00  | 1.00  | 1.00  | 1.00  | 260.00  | 27.52  | 9.69  |
| K7EMV3 | Histone H3 OS=Homo sapiens GN=H3F3B PE=1 SV=1 - [K7EMV3\_HUMAN] | 2.25  | 9.78  | 11.00  | 1.00  | 1.00  | 1.00  | 92.00  | 10.33  | 11.82  |
| H0Y8D1 | Trypsin-1 (Fragment) OS=Homo sapiens GN=PRSS1 PE=1 SV=1 - [H0Y8D1\_HUMAN] | 2.07  | 7.04  | 4.00  | 1.00  | 1.00  | 2.00  | 142.00  | 15.41  | 7.27  |
| P06748 | Nucleophosmin OS=Homo sapiens GN=NPM1 PE=1 SV=2 - [NPM\_HUMAN] | 2.02  | 10.88  | 2.00  | 2.00  | 2.00  | 2.00  | 294.00  | 32.55  | 4.78  |
| P46783 | 40S ribosomal protein S10 OS=Homo sapiens GN=RPS10 PE=1 SV=1 - [RS10\_HUMAN] | 2.00  | 5.45  | 3.00  | 1.00  | 1.00  | 2.00  | 165.00  | 18.89  | 10.15  |
| K7EJT5 | 60S ribosomal protein L22 (Fragment) OS=Homo sapiens GN=RPL22 PE=1 SV=1 - [K7EJT5\_HUMAN] | 1.99  | 27.66  | 7.00  | 1.00  | 1.00  | 1.00  | 47.00  | 5.08  | 9.42  |
| Q7Z478 | ATP-dependent RNA helicase DHX29 OS=Homo sapiens GN=DHX29 PE=1 SV=2 - [DHX29\_HUMAN] | 1.95  | 0.66  | 2.00  | 1.00  | 1.00  | 1.00  | 1369.00  | 155.14  | 8.09  |
| E7EUT5 | Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH PE=1 SV=1 - [E7EUT5\_HUMAN] | 1.93  | 2.69  | 3.00  | 1.00  | 1.00  | 1.00  | 260.00  | 27.85  | 6.95  |
| A0A087WUI2 | Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Homo sapiens GN=HNRNPA2B1 PE=1 SV=1 - [A0A087WUI2\_HUMAN] | 1.82  | 5.75  | 10.00  | 2.00  | 2.00  | 2.00  | 261.00  | 29.82  | 4.97  |
| H0YAP2 | Polyadenylate-binding protein 1 (Fragment) OS=Homo sapiens GN=PABPC1 PE=1 SV=1 - [H0YAP2\_HUMAN] | 1.69  | 6.11  | 7.00  | 1.00  | 1.00  | 1.00  | 131.00  | 15.15  | 9.64  |
| Q9UKJ8 | Disintegrin and metalloproteinase domain-containing protein 21 OS=Homo sapiens GN=ADAM21 PE=2 SV=2 - [ADA21\_HUMAN] | 0.00  | 2.35  | 1.00  | 1.00  | 1.00  | 1.00  | 722.00  | 80.78  | 6.68  |
| Q9Y442 | Uncharacterized protein C22orf24 OS=Homo sapiens GN=C22orf24 PE=2 SV=1 - [CV024\_HUMAN] | 0.00  | 7.50  | 1.00  | 1.00  | 1.00  | 1.00  | 160.00  | 17.72  | 8.15  |
| Q96IG2 | F-box/LRR-repeat protein 20 OS=Homo sapiens GN=FBXL20 PE=1 SV=2 - [FXL20\_HUMAN] | 0.00  | 4.36  | 2.00  | 1.00  | 1.00  | 1.00  | 436.00  | 48.39  | 7.49  |
| Q14568 | Heat shock protein HSP 90-alpha A2 OS=Homo sapiens GN=HSP90AA2P PE=1 SV=2 - [HS902\_HUMAN] | 0.00  | 2.62  | 4.00  | 1.00  | 1.00  | 2.00  | 343.00  | 39.34  | 4.65  |
| D6R904 | Tropomyosin alpha-3 chain OS=Homo sapiens GN=TPM3 PE=1 SV=1 - [D6R904\_HUMAN] | 0.00  | 25.26  | 17.00  | 1.00  | 2.00  | 2.00  | 95.00  | 11.01  | 4.79  |
| M0QX76 | 40S ribosomal protein S16 (Fragment) OS=Homo sapiens GN=RPS16 PE=1 SV=1 - [M0QX76\_HUMAN] | 0.00  | 20.00  | 6.00  | 1.00  | 1.00  | 1.00  | 50.00  | 5.55  | 9.63  |
| E9PRF4 | Histone-lysine N-methyltransferase (Fragment) OS=Homo sapiens GN=SETDB1 PE=1 SV=1 - [E9PRF4\_HUMAN] | 0.00  | 2.62  | 2.00  | 1.00  | 1.00  | 1.00  | 1259.00  | 139.30  | 6.21  |
| H0YNM2 | Semaphorin-4B (Fragment) OS=Homo sapiens GN=SEMA4B PE=1 SV=1 - [H0YNM2\_HUMAN] | 0.00  | 5.00  | 1.00  | 1.00  | 1.00  | 1.00  | 120.00  | 13.06  | 7.99  |
| A0A075B6Z2 | T-cell receptor alpha joining 56 (Fragment) OS=Homo sapiens GN=TRAJ56 PE=4 SV=1 - [A0A075B6Z2\_HUMAN] | 0.00  | 38.10  | 1.00  | 1.00  | 1.00  | 8.00  | 21.00  | 2.22  | 10.29  |
| B7ZBA8 | Coiled-coil domain-containing protein 154 OS=Homo sapiens GN=CCDC154 PE=1 SV=1 - [B7ZBA8\_HUMAN] | 0.00  | 1.15  | 2.00  | 1.00  | 1.00  | 1.00  | 522.00  | 59.41  | 9.26  |
| A0A0G2JNN3 | Leukocyte receptor cluster member 8 (Fragment) OS=Homo sapiens GN=LENG8 PE=1 SV=1 - [A0A0G2JNN3\_HUMAN] | 0.00  | 1.24  | 5.00  | 1.00  | 1.00  | 1.00  | 726.00  | 79.44  | 9.55  |