|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene Name** | **Gene Symbol** | **Aliases & Descriptions** | **Gene Ontology** | **Expression in body fluids** | **Putative Class** |
| C1orf31 | COA6 | C1orf31 | chromosome 1 open reading frame 31 |cytochrome c oxidase assembly factor 6 homolog | cytochrome c oxidase assembly factor 6 homolog (*S. cerevisiae*) | GO:0005739 mitochondrion|GO:0004129 cytochrome-c oxidase activity| GO:0015077 monovalent inorganic cation transmembrane transporter activity|GO:0008152 Metabolism | Blood plasma | Enzyme (cytochrome c oxidase) |
| C1orf198 | C1orf198 | chromosome 1 open reading frame 198 |uncharacterized protein C1orf198 | GO:0005737 cytoplasm | Membrane | Peripheral blood lymphocytes | Uncharacterized |
| C1orf200 | C1orf200 | chromosome 1 open reading frame 200|PIK3CD antisense RNA 1 |  | Secretion by cell, Blood plasma | Signal Transduction |
| C1orf228 | C1orf228 | chromosome 1 open reading frame 228 | non-protein coding RNA 82 |uncharacterized protein C1orf228 | p40 | NCRNA00082 | GO:0005488 binding | Bone marrow | Nucleotide and Protein Binding |
| C2orf27A | C2orf27A | C2orf27 | chromosome 2 open reading frame 27A | uncharacterized protein C2orf27 |C2orf27B | chromosome 2 open reading frame 27 | GO:0005576 extracellular region | Saliva | Uncharacterized |
| C2orf42¶ | C2orf42 | uncharacterized protein C2orf42 | chromosome 2 open reading frame 42 | GO:0005737 cytoplasm | Membrane | Ascites | Metal Binding (Zinc)|transcription factor|lncRNA |
| C2orf72¶ | C2orf72 | chromosome 2 open reading frame 72 |uncharacterized protein C2orf72 | GO:0005576 extracellular region |Membrane|GO:0005515 protein binding | Whole blood | Uncharacterized|ncRNA |
| C6orf99 | C6orf99 | chromosome 6 open reading frame 99 | yR211F11.1 |putative uncharacterized protein C6orf99 |  | Blood plasma | Uncharacterized |
| C10orf128 ★ | C10orf128 | chromosome 10 open reading frame 128 |putative uncharacterized protein C10orf128 | GO:0016021 integral to membrane |GO:0031224 intrinsic to membrane | Blood plasma | Secreted | Transmembrane |
| C13orf34 | BORA | bora, aurora kinase A activator | hsBora | HsBora |aurora borealis | chromosome 13 open reading frame 34 | protein aurora borealis | C13orf34 | GO:0005634 Nucleus | GO:0005737 Cytoplasm|GO:0019901 protein kinase binding| GO:0000087 M phase of mitotic cell cycle |  | Enzyme regulator |
| C16orf72 | C16orf72 | PRO0149 | UPF0472 protein C16orf72 | chromosome 16 open reading frame 72 |  | Blood plasma | Phosphoprotein |
| C20orf117 | SOGA1 | suppressor of glucose, autophagy associated 1 | suppressor of glucose, autophagy-associated protein 1 | C20orf117 | "suppressor of glucose from autophagy" | Suppressor of glucose, autophagy-associated protein 1 | Suppressor of glucose by autophagy |protein SOGA1 | SOGA | chromosome 20 open reading frame 117 | suppressor of glucose from autophagy | SOGA family member 1 | KIAA0889 | suppressor of glucose by autophagy | "suppressor of glucose by autophagy" | GO:0005615 extracellular space | GO:0010506 regulation of autophagy | Blood plasma | Regulator | glucose suppressor |
| C20orf132 | MROH8 | chromosome 20 open reading frame 131 | "hypothetical protein LOC140699" | chromosome 20 open reading frame 132 | Maestro heat-like repeat-containing protein family member 8 | protein MROH8 | maestro heat-like repeat-containing protein family member 8 | dJ621N11.4 | maestro heat-like repeat family member 8 | C20orf132 | C20orf131 |dJ621N11.3 | GO:0005730 Nucleolus|GO:0005488 binding |  | Nucleotide binding | Protein binding |
| C21orf88 | C21orf88 | chromosome 21 open reading frame 88|B3GALT5 antisense RNA 1 | GO:0005576 extracellular region | Blood plasma | Uncharacterized |
| CXorf21 | CXorf21 | chromosome X open reading frame 21 |uncharacterized protein CXorf21 | nucleus | Bone marrow, whole blood | Enzyme |
| CXorf23 | CXorf23 | chromosome X open reading frame 23 |uncharacterized protein CXorf23 | GO:0005739 mitochondrion | GO:0005634 Nucleus | Peripheral blood lymphocytes | Phosphoprotein | Receptor |

**Table 2:** Novel ORFs in the human proteome associated with Ebola Virus Disease.

The uncharacterized ORFs associated with EVD were subjected to Gene Ontology, protein expression analysis and motif and domain analysis. The sub cellular location, process and function are shown for GO. Expression in body fluids as analyzed by MOPED and ProteomicsDB is shown for the ORFs. The putative class of the ORFs inferred from the motif and domain analysis tools is shown in the last column. ★ Secreted, signal peptide positive. ¶, lincRNAs

EVD: Ebola Virus Disease; ORF: Open Reading Frame; GO: Gene Ontology; MOPED: Multi Omics Protein Expression Database; ncRNA: Noncoding RNA; ProteomicsDB: Proteomics Database.