**Table S1.** List of nodes with highest reachability and betweenness in the network

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| * + 1. **Gene name**
 | * + 1. **MEROPS ID**
 | * + 1. **Reachability**
 | * + 1. **Betweenness**
 | * + 1. **Out-degree**
 | * + 1. **In-degree**
 |
| * + 1. **FURIN**
 | * + 1. S08.071
 | * + 1. 162
 | 0 | 22 | 3 |
| * + 1. **CST6**
 | * + 1. I25.006
 | * + 1. 157
 | 0 | 4 | 0 |
| * + 1. **PIGK**
 | * + 1. C13.005
 | * + 1. 156
 | 0 | 2 | 0 |
| * + 1. **TMPRSS15**
 | * + 1. S01.156
 | * + 1. 155
 | 0 | 2 | 0 |
| * + 1. **HTRA2**
 | * + 1. S01.278
 | * + 1. 155
 | 0 | 9 | 4 |
| * + 1. **MMP11**
 | * + 1. M10.007
 | * + 1. 155
 | 43 | 7 | 3 |
| * + 1. **PCSK5**
 | * + 1. S08.076
 | * + 1. 155
 | 0 | 4 | 0 |
| **PCSK7** | * + 1. S08.077
 | * + 1. 155
 | 0 | 1 | 0 |
| * + 1. **CTSL3**
 | * + 1. I29.001
 | * + 1. 155
 | 0 | 3 | 0 |
| * + 1. **CSTA**
 | * + 1. I25.001
 | * + 1. 155
 | 0 | 5 | 0 |
| * + 1. **PLG**
 | * + 1. S01.233
 | * + 1. 153
 | 7939 | 40 | 27 |
| * + 1. **A2M**
 | * + 1. I39.001
 | * + 1. 153
 | 6980 | 27 | 16 |
| * + 1. **CTSL1**
 | * + 1. C01.032
 | * + 1. 153
 | 5215 | 29 | 13 |
| * + 1. **APP**
 | * + 1. I02.015
 | * + 1. 153
 | 4920 | 5 | 102 |
| * + 1. **SERPINA1**
 | * + 1. I04.001
 | * + 1. 153
 | 4400 | 10 | 25 |
| * + 1. **KNG1**
 | * + 1. I25.016
 | * + 1. 153
 | 4183 | 1 | 55 |
| * + 1. **KLK4**
 | * + 1. S01.251
 | * + 1. 153
 | 3770 | 32 | 6 |
| **CASP3** | * + 1. C14.003
 | * + 1. 153
 | 2529 | 24 | 13 |
| * + 1. **ELANE**
 | * + 1. S01.131
 | * + 1. 153
 | 2290 | 40 | 6 |
| * + 1. **F2**
 | * + 1. S01.217
 | * + 1. 153
 | 2004 | 21 | 12 |