**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 |