| # | Keywords | Number of proteins | Number of families | Average sequence length | Z-score | P-value |
|----|---------------------------|--------------------|--------------------|-------------------------|---------|---------|
| 1 | Oxidoreductase | 14995 | 992 | 376.63 | -29.54 | 0 |
| 2 | Transferase | 26525 | 1606 | 445.17 | -24.25 | 0 |
| 3 | Lyase | 7262 | 347 | 377.92 | -22.64 | 0 |
| 4 | Hydrolase | 20464 | 1995 | 430.68 | -21.75 | 0 |
| 5 | Isomerase | 4487 | 220 | 383.98 | -14.18 | 0 |
| 6 | Glycosidase | 1826 | 244 | 444.73 | -13.98 | 0 |
| 7 | Glycosyltransferase | 2950 | 261 | 437.53 | -12.51 | 0 |
| 8 | Acyltransferase | 2239 | 179 | 402.83 | -10.85 | 0 |
| 9 | Methyltransferase | 3524 | 224 | 349.60 | -10.53 | 0 |
| 10 | Kinase | 7017 | 322 | 448.29 | -10.22 | 0 |
| 11 | Ligase | 8010 | 230 | 529.41 | -10.06 | 0 |
| 12 | Decarboxylase | 1293 | 63 | 345.26 | -9.66 | 0 |
| 13 | Monooxygenase | 1668 | 73 | 444.87 | -9.26 | 0 |
| 14 | Metalloprotease | 1100 | 109 | 553.73 | -7.89 | 0 |
| 15 | Aminopeptidase | 452 | 39 | 509.17 | -7.55 | 0 |
| 16 | Dioxygenase | 360 | 66 | 433.20 | -7.32 | 0 |
| 17 | Aminoacyl-tRNA synthetase | 3402 | 37 | 571.83 | -7.15 | 0 |
| 18 | Protease | 4423 | 380 | 549.70 | -7.1 | 0 |
| 19 | Aminotransferase | 955 | 28 | 420.27 | -6.02 | 0 |

| # | name | n | avg_len | avg_dis | Z | p |
|----|----------------------------|------|---------|---------|--------|---|
| 1 | Oxidoreductase | 4126 | 472.25 | 0.28 | -41.13 | 0 |
| 2 | Hydrolase | 7564 | 614.81 | 0.51 | -26.80 | 0 |
| 3 | Lyase | 1431 | 481.37 | 0.30 | -23.83 | 0 |
| 4 | Monooxygenase | 555 | 503.36 | 0.20 | -20.62 | 0 |
| 5 | Transferase | 8846 | 631.95 | 0.55 | -19.54 | 0 |
| 6 | Ligase | 995 | 693.30 | 0.46 | -17.42 | 0 |
| 7 | Glycosyltransferase | 1134 | 551.26 | 0.40 | -16.83 | 0 |
| 8 | Glycosidase | 697 | 570.50 | 0.37 | -16.62 | 0 |
| 9 | Isomerase | 931 | 422.72 | 0.35 | -13.65 | 0 |
| 10 | Transducer | 1703 | 482.28 | 0.41 | -12.99 | 0 |
| 11 | Protease | 1863 | 674.42 | 0.54 | -12.90 | 0 |
| 12 | G-protein coupled receptor | 1385 | 465.62 | 0.39 | -12.61 | 0 |
| 13 | Acyltransferase | 867 | 531.58 | 0.42 | -11.72 | 0 |
| 14 | Decarboxylase | 195 | 488.21 | 0.25 | -11.40 | 0 |
| 15 | Aminotransferase | 202 | 451.05 | 0.24 | -10.36 | 0 |
| 16 | Aminopeptidase | 130 | 668.72 | 0.37 | -9.24 | 0 |
| 17 | Serine protease | 460 | 700.07 | 0.50 | -8.71 | 0 |
| 18 | Methyltransferase | 874 | 611.22 | 0.47 | -8.65 | 0 |
| 19 | Metalloprotease | 507 | 688.25 | 0.56 | -8.26 | 0 |
| 20 | Carboxypeptidase | 116 | 631.16 | 0.37 | -8.11 | 0 |
| 21 | Threonine protease | 138 | 246.88 | 0.18 | -7.35 | 0 |
| 22 | Dioxygenase | 366 | 622.32 | 0.48 | -7.30 | 0 |