Supplemental File 4. Calculation of a conservation score.

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| --- | --- | --- | --- |
| Query start position in BLAST alignment | Weight to give | Proportion of hits with this Q-Start Position | Weight x Proportion |
| 1 | 40 | 0.22 | 8.8 |
| 2 | 39 | 0.01 | 0.39 |
| 3 | 38 | 0.01 | 0.38 |
| 4 | 37 | 0.02 | 0.74 |
| . | . | . | . |
| . | . | . | . |
| . | . | . | . |
| 38 | 3 | 0.03 | 0.09 |
| 39 | 2 | 0.03 | 0.06 |
| 40 | 1 | 0.04 | 0.04 |
|  |  |  |  |
|  |  |  | Sum (= Cons. Score) |