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|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title                       | Function2Form Bridge - Towards synthetic protein holistic performance-prediction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                        | RC-score | Hydrophobicity | Solvent Accesibility | Docking Affinity | Size   | Instability | pI   | Secretion | Luminsecence | OP score | Op score secretion | RF antiClfa train | Lm antiClfA train |
|------------------------|----------|----------------|----------------------|------------------|--------|-------------|------|-----------|--------------|----------|--------------------|-------------------|-------------------|
| <b>Muc1 Diabody 1</b>  | 81.8     | 44.6           | 67.5                 | -16.3            | 82.9   | 47.75       | 39.6 | 2.55E+05  | 2.16E+03     | 6.68     | 6.48               | 832751.3          | -451059           |
| <b>Muc1 Diabody 2</b>  | 89       | 45.33333       | 0                    | 0                | 37.53  | 30.92       | 37.0 | 2.28E+06  | 3.02E+01     | 9.48     | 8.42               | 2627981           | 1968376           |
| <b>Muc1 Diabody 3</b>  | 75.5     | 45.19403       | 67.22222             | -13.4            | 83.46  | 46          | 43.0 | 1.09E+05  | 2.44E+03     | 6.9      | 6.55               | 450830.6          | -618340           |
| <b>Muc1 Diabody 6</b>  | 86.9     | 47.77778       | 0                    | 0                | 24.327 | 18.42       | 39.4 | 4.10E+06  | 1.60E+03     | 9.27     | 8.21               | 2728578           | 3824501           |
| <b>Muc1 Monobody 1</b> | 84.3     | 44.78778       | 59.55556             | -17.5            | 66     | 42.74       | 38.5 | 1.50E+07  | 4.91E+03     | 5.79     | 5.66               | 857552.9          | 654866.1          |
| <b>Muc1 Monobody 2</b> | 88.4     | 45.77778       | 59.55556             | -18              | 53.3   | 39.07       | 41.6 | 1.54E+05  | 2.79E+03     | 4.69     | 4.59               | 924231.9          | 515674.6          |
| <b>Muc1 Monobody 3</b> | 83.5     | 44.88889       | 62.22222             | -16.7            | 66.5   | 42.11       | 38.5 | 3.58E+05  | 1.07E+05     | 5.73     | 5.55               | 847932            | 788415.7          |
| <b>Muc1 Monobody 4</b> | 86       | 45.8           | 61.55                | -18.6            | 45.7   | 39          | 41.6 | 5.84E+04  | 9.62E+04     | 5.04     | 4.97               | 743816.9          | 515674.6          |
| <b>ClfA Diabody 1</b>  | 74.9     | 46.11111       | 65.33                | -13.6            | 99.029 | 38.42       | 52.7 | 2.98E+04  | 9.51E+03     | 6.88     | 6.55               | 162444.8          | -451059           |
| <b>ClfA Diabody 2</b>  | 89       | 45.33333       | 0                    | 0                | 37.53  | 30.92       | 37.0 | 2.28E+06  | 1.12E+03     | 9.48     | 8.42               | 2627981           | 1968376           |
| <b>ClfA Diabody 3</b>  | 80.2     | 46.88889       | 65                   | -15.2            | 85.826 | 35.97       | 60.1 | 5.67E+03  | 4.55E+04     | 6.03     | 5.78               | 83927.45          | -618340           |
| <b>ClfA Diabody 6</b>  | 86.9     | 47.77778       | 0                    | 0                | 24.327 | 18.42       | 39.4 | 4.10E+06  | 2.09E+02     | 9.27     | 8.21               | 2728578           | 3824501           |
| <b>ClfA Monobody 1</b> | 78.1     | 45.88889       | 61.1                 | -15.1            | 67.672 | 36.21       | 42.9 | 6.35E+05  | 9.09E+04     | 5.62     | 5.36               | 396419.6          | 654866.1          |
| <b>ClfA Monobody 2</b> | 86.2     | 47.11111       | 64.88                | -15.4            | 54.469 | 31.08       | 55.7 | 3.50E+04  | 9.30E+03     | 3.62     | 3.38               | 176172.8          | 515674.6          |
| <b>ClfA Monobody 3</b> | 82.8     | 46.66667       | 57.77                | -18.3            | 67.672 | 35.39       | 42.9 | 1.02E+05  | 2.65E+04     | 5.29     | 5.21               | 216918.4          | 788415.7          |
| <b>ClfA Monobody 4</b> | 86.5     | 47.11111       | 59.55                | -16.9            | 54.469 | 31.08       | 55.7 | 1.01E+04  | 1.52E+04     | 3.8      | 3.64               | 187591.1          | 515674.6          |