

# Characterization of p53 family homologs in evolutionary remote branches of Holozoa

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## Supplementary material 8: p-values of all domain hits in non-metazoan p53 homologs

| Query  | Hit type    | PSSM-ID | From | To  | E-Value     | Bitscore | Accession | Short name                  | Incomplete | Superfamily |
|--|-------------|---------|------|-----|-------------|----------|-----------|-----------------------------|------------|-------------|
| Q#1 - >XP_001746020.1_Monosiga_brevicollis           | specific    | 176262  | 132  | 311 | 5.49E-71    | 224.07   | cd08367   | P53                         | -          | cl14608     |
| Q#2 - >XP_001747656.1_Monosiga_brevicollis           | specific    | 176262  | 194  | 357 | 5.83E-58    | 191.328  | cd08367   | P53                         | -          | cl14608     |
| Q#3 - >XP_004991396.1_Salpingoeca_rosetta            | superfamily | 326329  | 114  | 167 | 1.71E-12    | 61.9012  | cl14608   | P53 superfamily             | C          | -           |
| Q#4 - >XP_004991397.1_Salpingoeca_rosetta            | superfamily | 326329  | 3    | 110 | 9.41E-28    | 106.584  | cl14608   | P53 superfamily             | N          | -           |
| Q#4 - >XP_004991397.1_Salpingoeca_rosetta            | specific    | 334133  | 256  | 315 | 2.08E-16    | 72.2856  | pfam00536 | SAM_1                       | -          | cl15755     |
| Q#5 - >XP_004994590.1_Salpingoeca_rosetta            | specific    | 176262  | 151  | 319 | 1.16E-40    | 145.875  | cd08367   | P53                         | -          | cl14608     |
| Q#5 - >XP_004994590.1_Salpingoeca_rosetta            | specific    | 336753  | 404  | 465 | 1.48E-09    | 54.1979  | pfam07647 | SAM_2                       | -          | cl15755     |
| Q#5 - >XP_004994590.1_Salpingoeca_rosetta            | superfamily | 311579  | 357  | 381 | 0.01354     | 33.7967  | cl06653   | P53_tetramer superfamily    | C          | -           |
| Q#6 - >XP_004365382.2_Capsaspora_owczarzaki          | specific    | 176262  | 184  | 373 | 3.98E-40    | 145.104  | cd08367   | P53                         | -          | cl14608     |
| Q#6 - >XP_004365382.2_Capsaspora_owczarzaki          | superfamily | 353976  | 612  | 670 | 2.00E-08    | 51.3751  | cl15755   | SAM_superfamily superfamily | -          | -           |
| Q#6 - >XP_004365382.2_Capsaspora_owczarzaki          | superfamily | 311579  | 500  | 529 | 3.24E-05    | 41.1155  | cl06653   | P53_tetramer superfamily    | C          | -           |
| Q#6 - >XP_004365382.2_Capsaspora_owczarzaki          | superfamily | 225689  | 362  | 449 | 0.000544872 | 41.7963  | cl34559   | DedD superfamily            | C          | -           |
| Q#6 - >XP_004365382.2_Capsaspora_owczarzaki          | superfamily | 235906  | 398  | 609 | 0.00724794  | 39.4476  | cl35530   | PRK07003 superfamily        | NC         | -           |
| Q#7 - >XP_014156832.1_Sphaeroforma_arctica           | specific    | 176262  | 53   | 254 | 4.50E-44    | 153.579  | cd08367   | P53                         | -          | cl14608     |
| Q#7 - >XP_014156832.1_Sphaeroforma_arctica           | superfamily | 311579  | 366  | 391 | 0.000771266 | 36.8783  | cl06653   | P53_tetramer superfamily    | C          | -           |
| Q#8 - >CFRG4869T1_Creolimax_fragrantissima           | specific    | 176262  | 209  | 404 | 5.08E-43    | 153.579  | cd08367   | P53                         | -          | cl14608     |
| Q#8 - >CFRG4869T1_Creolimax_fragrantissima           | superfamily | 311579  | 561  | 585 | 4.08E-06    | 43.8119  | cl06653   | P53_tetramer superfamily    | C          | -           |
| Q#9 - >lhof_evm3s137_Ichthyophonus_hoferi            | superfamily | 326329  | 141  | 318 | 9.47E-41    | 144.334  | cl14608   | P53 superfamily             | -          | -           |
| Q#9 - >lhof_evm3s137_Ichthyophonus_hoferi            | superfamily | 311579  | 366  | 399 | 0.000175661 | 38.8043  | cl06653   | P53_tetramer superfamily    | -          | -           |
| Q#10 - >Nk52_evm78s1737_Chromosphaera_perkinsii      | specific    | 176262  | 261  | 468 | 8.67E-53    | 180.543  | cd08367   | P53                         | -          | cl14608     |
| Q#10 - >Nk52_evm78s1737_Chromosphaera_perkinsii      | superfamily | 353976  | 635  | 691 | 7.89E-10    | 55.1444  | cl15755   | SAM_superfamily superfamily | -          | -           |
| Q#11 - >Clim_evm153s157_Corallochytrium_limacisporum | superfamily | 326329  | 131  | 313 | 3.99E-15    | 73.4572  | cl14608   | P53 superfamily             | -          | -           |