

**NC\_002369 — red squirrel (16507 bp)**

Computation with NUC.4.4 substitutions scores and -6 gap start and -1 gap extension penalties

| <b>score</b> | <b>NC</b> | <b>bp</b> | <b>common name</b>     |
|--------------|-----------|-----------|------------------------|
| 53613        | NC_035817 | 16490     | finlaysons squirrel    |
| 49000        | NC_024052 | 16965     | diana tarsier          |
| 48224        | NC_001788 | 16670     | wild ass               |
| 47945        | NC_008092 | 16729     | gray wolf 1            |
| 47903        | NC_009686 | 16757     | gray wolf 2            |
| 47879        | NC_002008 | 16727     | dog                    |
| 47874        | NC_002078 | 16816     | aardvark               |
| 47780        | NC_020648 | 16538     | striped skunk          |
| 47654        | NC_006928 | 16408     | brydes whale           |
| 47634        | NC_024820 | 16433     | giraffe                |
| 47572        | NC_027956 | 16721     | african golden wolf    |
| 47442        | NC_005212 | 17047     | cheetah                |
| 47318        | NC_016428 | 16263     | striped field mouse    |
| 47045        | NC_009692 | 16431     | sea otter              |
| 46939        | NC_027932 | 16232     | harvest mouse          |
| 46901        | NC_001700 | 17009     | cat                    |
| 46882        | NC_000884 | 16801     | guinea pig             |
| 46780        | NC_021386 | 16580     | long-tailed chinchilla |
| 46379        | NC_023889 | 16386     | killer whale           |
| 46294        | NC_010638 | 16773     | snow leopard           |
| 46051        | NC_001601 | 16402     | blue whale             |
| 45999        | NC_001602 | 16797     | grey seal              |
| 45891        | NC_001321 | 16398     | fin whale              |
| 45870        | NC_022429 | 16637     | spectral bat           |
| 45796        | NC_020669 | 17112     | striped hyena          |
| 45499        | NC_001644 | 16563     | bonobo                 |
| 44929        | NC_001645 | 16364     | gorilla                |
| 44912        | NC_000845 | 16613     | wild boar              |
| 44740        | NC_001610 | 17084     | virginia opossum       |
| 44386        | NC_003322 | 16996     | common wombat          |
| 44224        | NC_025222 | 16560     | tonkean macaque        |
| 43802        | NC_000891 | 17019     | platypus               |
| 43510        | NC_002083 | 16499     | orangutan              |
| 43484        | NC_012920 | 16569     | human                  |
| 43420        | NC_011137 | 16565     | neanderthal            |
| 40457        | NC_023520 | 16773     | sand tiger shark       |
| 39916        | NC_022415 | 16744     | white shark            |
| 39877        | NC_010570 | 16433     | pirarucu               |
| 39868        | NC_030247 | 16603     | labeonin               |
| 39713        | NC_006887 | 16375     | tiger salamander       |

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|--------------|-----------|-----------|------------------------------|
| 39657        | NC_026308 | 17298     | baja california brush lizard |
| 39657        | NC_020336 | 16525     | tiger tail seahorse          |
| 39615        | NC_005797 | 16369     | axolotl                      |
| 39313        | NC_031807 | 16581     | common carp                  |
| 39169        | NC_011180 | 16825     | flat needlefish              |
| 39107        | NC_011943 | 16502     | starry triggerfish           |
| 39037        | NC_009064 | 16703     | indo-pacific sergeant        |
| 38981        | NC_020346 | 17098     | greenspot goby               |
| 38831        | NC_028290 | 16565     | atlantic sturgeon            |
| 38700        | NC_009830 | 16434     | powderblue surgeonfish       |
| 38561        | NC_024853 | 16509     | moonlighter fish             |
| 38490        | NC_003190 | 16715     | john dory                    |
| 38405        | NC_004390 | 16508     | tapetail                     |
| 38303        | NC_036391 | 16513     | yellow bullhead              |
| 38251        | NC_008668 | 16778     | ray-finned fish              |
| 38015        | NC_027857 | 16551     | bandit angelfish             |
| 37823        | NC_015200 | 16939     | eurasian magpie              |
| 37812        | NC_005958 | 16016     | alligator lizard             |
| 37170        | NC_018801 | 16775     | red-winged blackbird         |
| 37104        | NC_018804 | 16773     | saffron-cowled blackbird     |
| 37076        | NC_004380 | 16479     | goosefish                    |
| 36842        | NC_008410 | 17277     | asiatic toad                 |
| 36836        | NC_029146 | 17821     | silvereve                    |
| 36773        | NC_027241 | 16893     | goulds sunbird               |
| 36739        | NC_033973 | 16817     | terek sandpiper              |
| 36723        | NC_026082 | 17952     | besra                        |
| 36675        | NC_036493 | 17325     | Santa Barbara tree frog      |
| 36669        | NC_028510 | 17271     | austrolebias                 |
| 36655        | NC_011947 | 16441     | spiny tailed leatherjacket   |
| 36407        | NC_002783 | 16749     | rhea                         |
| 36380        | NC_025923 | 20350     | Eurasian bittern             |
| 36310        | NC_032058 | 17827     | abyssinian white-eye         |
| 36245        | NC_011196 | 16738     | greylag goose                |
| 36211        | NC_024268 | 17937     | silver-throated bushtit      |
| 35901        | NC_035150 | 18974     | cat gecko                    |
| 35878        | NC_029846 | 17370     | lesser kestrel               |
| 35625        | NC_028018 | 16653     | white char                   |
| 35445        | NC_018033 | 16683     | blood pheasant               |
| 35442        | NC_025594 | 16802     | long-tailed rosefinch        |
| 35334        | NC_020591 | 16673     | hazel grouse                 |

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|--------------|-----------|-----------|------------------------------------|
| 34856        | NC_027847 | 17962     | grey parrot                        |
| 32553        | NC_032084 | 17165     | grey burrowing snake               |
| 32152        | NC_014175 | 16544     | peninsular horned tree lizard      |
| 23012        | NC_023248 | 29999     | anamorphic fungus                  |
| 21905        | NC_013272 | 16518     | brown marmorated stink bug         |
| 21592        | NC_015119 | 16803     | snow scorpionfly                   |
| 21494        | NC_008221 | 15774     | asian longhorned beetle            |
| 21427        | NC_030265 | 15534     | european mantis                    |
| 21353        | NC_023955 | 15782     | freshwater pearl mussel            |
| 21337        | NC_035677 | 16130     | bean weevil                        |
| 21234        | NC_033906 | 15872     | <i>Sinopodisma wulingshanensis</i> |
| 21230        | NC_014887 | 15599     | chinese grasshopper                |
| 21197        | NC_015342 | 15647     | kudzu beetle                       |
| 21061        | NC_029168 | 15326     | <i>acasta sulcata</i>              |
| 21051        | NC_014295 | 15895     | eastern honey bee                  |
| 20986        | NC_026104 | 15804     | stonefly                           |
| 20813        | NC_029498 | 15281     | yellow-banded acraea               |
| 20751        | NC_029510 | 15258     | dancing acraea                     |
| 20728        | NC_016419 | 15140     | east palearctic butterfly          |
| 20645        | NC_031858 | 16310     | pacific star shell                 |
| 20129        | NC_034122 | 14913     | congo termite                      |
| 19826        | NC_000894 | 20992     | leishmania                         |
| 19792        | NC_026914 | 14948     | water flea                         |
| 19629        | NC_022827 | 18479     | staghorn coral                     |
| 17450        | NC_021933 | 15282     | millipede                          |
| 17323        | NC_008161 | 14853     | stony coral                        |
| 16731        | NC_027943 | 16270     | peruvian scallop                   |
| 15429        | NC_016198 | 14281     | giant roundworm                    |
| 15030        | NC_019571 | 13913     | cat lungworm                       |
| 14331        | NC_016197 | 13724     | filarial nematode                  |
| 12797        | NC_001722 | 10359     | hiv-2 (virus)                      |
| 6122         | NC_007233 | 5990      | monkey malaria parasite            |
| 5149         | NC_035130 | 6363      | australian mosquito                |
| 3863         | NC_001499 | 5894      | abelson (virus)                    |
| -5192        | NC_016577 | 2633      | AbMV (virus)                       |
| -9056        | NC_020099 | 1670      | copepod                            |