

**NC\_002369 — red squirrel (16507 bp)**  
LCS with gap/mismatch penalty of -1

| <b>score</b> | <b>NC</b> | <b>bp</b> | <b>common name</b>     |
|--------------|-----------|-----------|------------------------|
| 10134        | NC_035817 | 16490     | finlaysons squirrel    |
| 8895         | NC_024052 | 16965     | diana tarsier          |
| 8832         | NC_024820 | 16433     | giraffe                |
| 8828         | NC_020648 | 16538     | striped skunk          |
| 8817         | NC_008092 | 16729     | gray wolf 1            |
| 8807         | NC_002008 | 16727     | dog                    |
| 8802         | NC_009686 | 16757     | gray wolf 2            |
| 8800         | NC_006928 | 16408     | brydes whale           |
| 8797         | NC_001788 | 16670     | wild ass               |
| 8746         | NC_027956 | 16721     | african golden wolf    |
| 8727         | NC_002078 | 16816     | aardvark               |
| 8725         | NC_016428 | 16263     | striped field mouse    |
| 8618         | NC_021386 | 16580     | long-tailed chinchilla |
| 8593         | NC_027932 | 16232     | harvest mouse          |
| 8577         | NC_009692 | 16431     | sea otter              |
| 8521         | NC_023889 | 16386     | killer whale           |
| 8521         | NC_000884 | 16801     | guinea pig             |
| 8345         | NC_022429 | 16637     | spectral bat           |
| 8263         | NC_001644 | 16563     | bonobo                 |
| 8156         | NC_005212 | 17047     | cheetah                |
| 8136         | NC_001645 | 16364     | gorilla                |
| 8060         | NC_001700 | 17009     | cat                    |
| 8027         | NC_025222 | 16560     | tonkean macaque        |
| 8022         | NC_001601 | 16402     | blue whale             |
| 7946         | NC_001321 | 16398     | fin whale              |
| 7913         | NC_010638 | 16773     | snow leopard           |
| 7907         | NC_020669 | 17112     | striped hyena          |
| 7881         | NC_003322 | 16996     | common wombat          |
| 7840         | NC_001610 | 17084     | virginia opossum       |
| 7812         | NC_002083 | 16499     | orangutan              |
| 7705         | NC_001602 | 16797     | grey seal              |
| 7687         | NC_000891 | 17019     | platypus               |
| 7316         | NC_012920 | 16569     | human                  |
| 7301         | NC_011137 | 16565     | neanderthal            |
| 7027         | NC_023520 | 16773     | sand tiger shark       |
| 6944         | NC_005797 | 16369     | axolotl                |
| 6933         | NC_006887 | 16375     | tiger salamander       |
| 6926         | NC_000845 | 16613     | wild boar              |
| 6913         | NC_022415 | 16744     | white shark            |
| 6912         | NC_010570 | 16433     | pirarucu               |

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|--------------|-----------|-----------|-------------------------------|
| 6908         | NC_020336 | 16525     | tiger tail seahorse           |
| 6878         | NC_030247 | 16603     | labeonin                      |
| 6754         | NC_031807 | 16581     | common carp                   |
| 6718         | NC_011943 | 16502     | starry triggerfish            |
| 6671         | NC_011180 | 16825     | flat needlefish               |
| 6630         | NC_028290 | 16565     | atlantic sturgeon             |
| 6629         | NC_009064 | 16703     | indo-pacific sergeant         |
| 6590         | NC_020346 | 17098     | greenspot goby                |
| 6586         | NC_009830 | 16434     | powderblue surgeonfish        |
| 6570         | NC_003190 | 16715     | john dory                     |
| 6567         | NC_024853 | 16509     | moonlighter fish              |
| 6557         | NC_036391 | 16513     | yellow bullhead               |
| 6538         | NC_004390 | 16508     | tapetail                      |
| 6520         | NC_026308 | 17298     | baja california brush lizard  |
| 6502         | NC_008668 | 16778     | ray-finned fish               |
| 6475         | NC_027857 | 16551     | bandit angelfish              |
| 6374         | NC_005958 | 16016     | alligator lizard              |
| 6203         | NC_004380 | 16479     | goosefish                     |
| 6164         | NC_015200 | 16939     | eurasian magpie               |
| 6119         | NC_011947 | 16441     | spiny tailed leatherjacket    |
| 6005         | NC_018801 | 16775     | red-winged blackbird          |
| 5982         | NC_018804 | 16773     | saffron-cowled blackbird      |
| 5933         | NC_028510 | 17271     | austrolebias                  |
| 5877         | NC_033973 | 16817     | terek sandpiper               |
| 5875         | NC_002783 | 16749     | rhea                          |
| 5859         | NC_027241 | 16893     | goulds sunbird                |
| 5855         | NC_008410 | 17277     | asiatic toad                  |
| 5832         | NC_011196 | 16738     | greylag goose                 |
| 5825         | NC_036493 | 17325     | Santa Barbara tree frog       |
| 5791         | NC_029146 | 17821     | silveryeye                    |
| 5733         | NC_026082 | 17952     | besra                         |
| 5605         | NC_024268 | 17937     | silver-throated bushtit       |
| 5584         | NC_032058 | 17827     | abyssinian white-eye          |
| 5540         | NC_029846 | 17370     | lesser kestrel                |
| 5005         | NC_020591 | 16673     | hazel grouse                  |
| 5000         | NC_018033 | 16683     | blood pheasant                |
| 4971         | NC_028018 | 16653     | white char                    |
| 4941         | NC_025594 | 16802     | long-tailed rosefinch         |
| 4919         | NC_014175 | 16544     | peninsular horned tree lizard |
| 4905         | NC_027847 | 17962     | grey parrot                   |

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|--------------|-----------|-----------|-----------------------------|
| 4757         | NC_035150 | 18974     | cat gecko                   |
| 4672         | NC_032084 | 17165     | grey burrowing snake        |
| 4320         | NC_025923 | 20350     | Eurasian bittern            |
| 2089         | NC_013272 | 16518     | brown marmorated stink bug  |
| 2039         | NC_030265 | 15534     | european mantis             |
| 2026         | NC_014887 | 15599     | chinese grasshopper         |
| 2012         | NC_033906 | 15872     | Sinopodisma wulingshanensis |
| 2001         | NC_015342 | 15647     | kudzu beetle                |
| 1985         | NC_015119 | 16803     | snow scorpionfly            |
| 1981         | NC_008221 | 15774     | asian longhorned beetle     |
| 1966         | NC_023955 | 15782     | freshwater pearl mussel     |
| 1948         | NC_014295 | 15895     | eastern honey bee           |
| 1917         | NC_026104 | 15804     | stonefly                    |
| 1914         | NC_029168 | 15326     | acasta sulcata              |
| 1911         | NC_035677 | 16130     | bean weevil                 |
| 1884         | NC_016419 | 15140     | east palearctic butterfly   |
| 1879         | NC_029498 | 15281     | yellow-banded acraea        |
| 1874         | NC_029510 | 15258     | dancing acraea              |
| 1727         | NC_034122 | 14913     | congo termite               |
| 1719         | NC_031858 | 16310     | pacific star shell          |
| 1595         | NC_026914 | 14948     | water flea                  |
| 932          | NC_021933 | 15282     | millipede                   |
| 904          | NC_022827 | 18479     | staghorn coral              |
| 833          | NC_008161 | 14853     | stony coral                 |
| 630          | NC_027943 | 16270     | peruvian scallop            |
| 513          | NC_016198 | 14281     | giant roundworm             |
| 412          | NC_000894 | 20992     | leishmania                  |
| 350          | NC_019571 | 13913     | cat lungworm                |
| 111          | NC_016197 | 13724     | filarial nematode           |
| -989         | NC_001722 | 10359     | hiv-2 (virus)               |
| -2774        | NC_023248 | 29999     | anamorphic fungus           |
| -5143        | NC_007233 | 5990      | monkey malaria parasite     |
| -5147        | NC_035130 | 6363      | australian mosquito         |
| -5773        | NC_001499 | 5894      | abelson (virus)             |
| -11241       | NC_016577 | 2633      | AbMV (virus)                |
| -13167       | NC_020099 | 1670      | copepod                     |