

**NC\_029846 — lesser kestrel (17370 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>           |
|--------------|-----------|-----------|------------------------------|
| 54915        | NC_026082 | 17952     | besra                        |
| 54270        | NC_025923 | 20350     | Eurasian bittern             |
| 52378        | NC_033973 | 16817     | terek sandpiper              |
| 51200        | NC_024268 | 17937     | silver-throated bushtit      |
| 51096        | NC_027847 | 17962     | grey parrot                  |
| 51012        | NC_029146 | 17821     | silveryeye                   |
| 50410        | NC_011196 | 16738     | greylag goose                |
| 50174        | NC_002783 | 16749     | rhea                         |
| 49929        | NC_027241 | 16893     | goulds sunbird               |
| 49906        | NC_018801 | 16775     | red-winged blackbird         |
| 49755        | NC_032058 | 17827     | abyssinian white-eye         |
| 49736        | NC_018804 | 16773     | saffron-cowled blackbird     |
| 49232        | NC_015200 | 16939     | eurasian magpie              |
| 46594        | NC_018033 | 16683     | blood pheasant               |
| 46576        | NC_025594 | 16802     | long-tailed rosefinch        |
| 45757        | NC_020591 | 16673     | hazel grouse                 |
| 40717        | NC_026308 | 17298     | baja california brush lizard |
| 38649        | NC_028290 | 16565     | atlantic sturgeon            |
| 38539        | NC_022429 | 16637     | spectral bat                 |
| 38508        | NC_001788 | 16670     | wild ass                     |
| 38495        | NC_031807 | 16581     | common carp                  |
| 38254        | NC_003322 | 16996     | common wombat                |
| 37824        | NC_020346 | 17098     | greenspot goby               |
| 37807        | NC_009064 | 16703     | indo-pacific sergeant        |
| 37757        | NC_001644 | 16563     | bonobo                       |
| 37709        | NC_024052 | 16965     | diana tarsier                |
| 37597        | NC_011943 | 16502     | starry triggerfish           |
| 37378        | NC_002078 | 16816     | aardvark                     |
| 37352        | NC_009692 | 16431     | sea otter                    |
| 37261        | NC_023520 | 16773     | sand tiger shark             |
| 37253        | NC_027857 | 16551     | bandit angelfish             |
| 37250        | NC_030247 | 16603     | labeonin                     |
| 37219        | NC_006928 | 16408     | brydes whale                 |
| 37218        | NC_021386 | 16580     | long-tailed chinchilla       |
| 37180        | NC_002083 | 16499     | orangutan                    |
| 37146        | NC_022415 | 16744     | white shark                  |
| 37073        | NC_011180 | 16825     | flat needlefish              |
| 37009        | NC_036391 | 16513     | yellow bullhead              |
| 36975        | NC_024820 | 16433     | giraffe                      |
| 36850        | NC_009830 | 16434     | powderblue surgeonfish       |

| <b>score</b> | <b>NC</b> | <b>bp</b> | <b>common name</b>         |
|--------------|-----------|-----------|----------------------------|
| 36841        | NC_025222 | 16560     | tonkean macaque            |
| 36834        | NC_003190 | 16715     | john dory                  |
| 36806        | NC_008668 | 16778     | ray-finned fish            |
| 36798        | NC_001645 | 16364     | gorilla                    |
| 36651        | NC_010570 | 16433     | pirarucu                   |
| 36641        | NC_005958 | 16016     | alligator lizard           |
| 36636        | NC_009686 | 16757     | gray wolf 2                |
| 36582        | NC_008092 | 16729     | gray wolf 1                |
| 36566        | NC_002008 | 16727     | dog                        |
| 36496        | NC_004380 | 16479     | goosefish                  |
| 36460        | NC_023889 | 16386     | killer whale               |
| 36383        | NC_001610 | 17084     | virginia opossum           |
| 36343        | NC_008410 | 17277     | asiatic toad               |
| 36334        | NC_024853 | 16509     | moonlighter fish           |
| 36252        | NC_035817 | 16490     | finlaysons squirrel        |
| 36250        | NC_027956 | 16721     | african golden wolf        |
| 36245        | NC_020648 | 16538     | striped skunk              |
| 36144        | NC_000884 | 16801     | guinea pig                 |
| 36130        | NC_020669 | 17112     | striped hyena              |
| 36120        | NC_012920 | 16569     | human                      |
| 36066        | NC_011137 | 16565     | neanderthal                |
| 36028        | NC_001601 | 16402     | blue whale                 |
| 35878        | NC_002369 | 16507     | red squirrel               |
| 35864        | NC_000891 | 17019     | platypus                   |
| 35801        | NC_027932 | 16232     | harvest mouse              |
| 35698        | NC_016428 | 16263     | striped field mouse        |
| 35676        | NC_001700 | 17009     | cat                        |
| 35660        | NC_001602 | 16797     | grey seal                  |
| 35648        | NC_001321 | 16398     | fin whale                  |
| 35613        | NC_005212 | 17047     | cheetah                    |
| 35597        | NC_011947 | 16441     | spiny tailed leatherjacket |
| 35326        | NC_020336 | 16525     | tiger tail seahorse        |
| 35130        | NC_000845 | 16613     | wild boar                  |
| 35008        | NC_035150 | 18974     | cat gecko                  |
| 34935        | NC_010638 | 16773     | snow leopard               |
| 34882        | NC_004390 | 16508     | tapetail                   |
| 34878        | NC_036493 | 17325     | Santa Barbara tree frog    |
| 34649        | NC_005797 | 16369     | axolotl                    |
| 34514        | NC_006887 | 16375     | tiger salamander           |
| 34482        | NC_028018 | 16653     | white char                 |

| <b>score</b> | <b>NC</b> | <b>bp</b> | <b>common name</b>            |
|--------------|-----------|-----------|-------------------------------|
| 34446        | NC_014175 | 16544     | peninsular horned tree lizard |
| 33024        | NC_032084 | 17165     | grey burrowing snake          |
| 32438        | NC_028510 | 17271     | austrolebias                  |
| 21490        | NC_023955 | 15782     | freshwater pearl mussel       |
| 21407        | NC_034122 | 14913     | congo termite                 |
| 21065        | NC_026104 | 15804     | stonefly                      |
| 20219        | NC_023248 | 29999     | anamorphic fungus             |
| 19943        | NC_015342 | 15647     | kudzu beetle                  |
| 18785        | NC_014887 | 15599     | chinese grasshopper           |
| 18396        | NC_033906 | 15872     | Sinopodisma wulingshanensis   |
| 18327        | NC_013272 | 16518     | brown marmorated stink bug    |
| 18004        | NC_035677 | 16130     | bean weevil                   |
| 17807        | NC_031858 | 16310     | pacific star shell            |
| 17786        | NC_030265 | 15534     | european mantis               |
| 17539        | NC_026914 | 14948     | water flea                    |
| 17296        | NC_008221 | 15774     | asian longhorned beetle       |
| 17291        | NC_029168 | 15326     | acasta sulcata                |
| 17096        | NC_029510 | 15258     | dancing acraea                |
| 17028        | NC_029498 | 15281     | yellow-banded acraea          |
| 16683        | NC_015119 | 16803     | snow scorpionfly              |
| 16588        | NC_016419 | 15140     | east palearctic butterfly     |
| 16164        | NC_014295 | 15895     | eastern honey bee             |
| 15786        | NC_022827 | 18479     | staghorn coral                |
| 15122        | NC_000894 | 20992     | leishmania                    |
| 13464        | NC_027943 | 16270     | peruvian scallop              |
| 12952        | NC_008161 | 14853     | stony coral                   |
| 12362        | NC_001722 | 10359     | hiv-2 (virus)                 |
| 11443        | NC_021933 | 15282     | millipede                     |
| 9658         | NC_016198 | 14281     | giant roundworm               |
| 8906         | NC_019571 | 13913     | cat lungworm                  |
| 7739         | NC_016197 | 13724     | filarial nematode             |
| 4183         | NC_035130 | 6363      | australian mosquito           |
| 4107         | NC_007233 | 5990      | monkey malaria parasite       |
| 3632         | NC_001499 | 5894      | abelson (virus)               |
| -6204        | NC_016577 | 2633      | AbMV (virus)                  |
| -9804        | NC_020099 | 1670      | copepod                       |