

**NC\_009830 — powderblue surgeonfish (16434 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>
52877	NC_024853	16509	moonlighter fish
52089	NC_009064	16703	indo-pacific sergeant
51326	NC_027857	16551	bandit angelfish
50966	NC_011943	16502	starry triggerfish
49139	NC_004380	16479	goosefish
48991	NC_011947	16441	spiny tailed leatherjacket
48568	NC_011180	16825	flat needlefish
48145	NC_020346	17098	greenspot goby
47646	NC_004390	16508	tapetail
47433	NC_031807	16581	common carp
47169	NC_003190	16715	john dory
46963	NC_028290	16565	atlantic sturgeon
46661	NC_036391	16513	yellow bullhead
46564	NC_030247	16603	labeonin
45588	NC_020336	16525	tiger tail seahorse
45308	NC_028018	16653	white char
45224	NC_008668	16778	ray-finned fish
44985	NC_010570	16433	pirarucu
43861	NC_022415	16744	white shark
43632	NC_023520	16773	sand tiger shark
39898	NC_026308	17298	baja california brush lizard
39528	NC_001788	16670	wild ass
39421	NC_003322	16996	common wombat
39354	NC_028510	17271	austrolebias
39337	NC_024820	16433	giraffe
39332	NC_005797	16369	axolotl
39313	NC_006928	16408	brydes whale
39188	NC_022429	16637	spectral bat
38979	NC_002078	16816	aardvark
38965	NC_006887	16375	tiger salamander
38906	NC_009692	16431	sea otter
38835	NC_023889	16386	killer whale
38834	NC_008410	17277	asiatic toad
38726	NC_021386	16580	long-tailed chinchilla
38716	NC_018804	16773	saffron-cowled blackbird
38700	NC_002369	16507	red squirrel
38674	NC_018801	16775	red-winged blackbird
38657	NC_001321	16398	fin whale
38572	NC_001601	16402	blue whale
38528	NC_020648	16538	striped skunk

<b>score</b>	<b>NC</b>	<b>bp</b>	<b>common name</b>
38520	NC_027932	16232	harvest mouse
38518	NC_024052	16965	diana tarsier
38420	NC_027241	16893	goulds sunbird
38405	NC_008092	16729	gray wolf 1
38365	NC_005212	17047	cheetah
38346	NC_009686	16757	gray wolf 2
38299	NC_035817	16490	finlaysons squirrel
38273	NC_001700	17009	cat
38249	NC_002008	16727	dog
38213	NC_024268	17937	silver-throated bushtit
38170	NC_027956	16721	african golden wolf
38165	NC_015200	16939	eurasian magpie
38125	NC_020669	17112	striped hyena
38124	NC_002083	16499	orangutan
38110	NC_016428	16263	striped field mouse
38098	NC_001602	16797	grey seal
38082	NC_000884	16801	guinea pig
38055	NC_011196	16738	greylag goose
38052	NC_001645	16364	gorilla
38037	NC_000891	17019	platypus
38027	NC_001644	16563	bonobo
37916	NC_025222	16560	tonkean macaque
37909	NC_010638	16773	snow leopard
37815	NC_029146	17821	silvereye
37773	NC_001610	17084	virginia opossum
37757	NC_033973	16817	terek sandpiper
37679	NC_026082	17952	besra
37670	NC_032058	17827	abyssinian white-eye
37643	NC_002783	16749	rhea
37563	NC_005958	16016	alligator lizard
37462	NC_036493	17325	Santa Barbara tree frog
37327	NC_012920	16569	human
37317	NC_011137	16565	neanderthal
37184	NC_025923	20350	Eurasian bittern
37118	NC_025594	16802	long-tailed rosefinch
36976	NC_000845	16613	wild boar
36850	NC_029846	17370	lesser kestrel
36630	NC_018033	16683	blood pheasant
36625	NC_020591	16673	hazel grouse
36393	NC_027847	17962	grey parrot

<b>score</b>	<b>NC</b>	<b>bp</b>	<b>common name</b>
34048	NC_035150	18974	cat gecko
32628	NC_032084	17165	grey burrowing snake
32460	NC_014175	16544	peninsular horned tree lizard
20339	NC_023955	15782	freshwater pearl mussel
20302	NC_026104	15804	stonefly
20139	NC_023248	29999	anamorphic fungus
18853	NC_015342	15647	kudzu beetle
18654	NC_034122	14913	congo termite
18579	NC_031858	16310	pacific star shell
18435	NC_013272	16518	brown marmorated stink bug
18355	NC_029168	15326	acasta sulcata
18160	NC_030265	15534	european mantis
18144	NC_033906	15872	Sinopodisma wulingshanensis
18130	NC_022827	18479	staghorn coral
18080	NC_035677	16130	bean weevil
18022	NC_014887	15599	chinese grasshopper
17991	NC_008221	15774	asian longhorned beetle
17953	NC_026914	14948	water flea
17468	NC_015119	16803	snow scorpionfly
17339	NC_029498	15281	yellow-banded acraea
17182	NC_029510	15258	dancing acraea
16962	NC_016419	15140	east palearctic butterfly
16782	NC_014295	15895	eastern honey bee
15859	NC_027943	16270	peruvian scallop
15692	NC_000894	20992	leishmania
15481	NC_008161	14853	stony coral
15425	NC_021933	15282	millipede
13104	NC_016198	14281	giant roundworm
13028	NC_001722	10359	hiv-2 (virus)
12596	NC_019571	13913	cat lungworm
11595	NC_016197	13724	filarial nematode
5627	NC_035130	6363	australian mosquito
5626	NC_007233	5990	monkey malaria parasite
4771	NC_001499	5894	abelson (virus)
-5072	NC_016577	2633	AbMV (virus)
-8903	NC_020099	1670	copepod