

S18 Table. The positively selected genes involved in the DNA repair from Yap hadal snailfish.

	Gene ID	Name	Description
1	Contig538_pilon.10	<i>ssna1</i>	Sjogren syndrome nuclear autoantigen 1
2	Contig31_pilon.44.1	<i>blm</i>	bloom syndrome protein
3	Contig31_pilon.277	<i>tobi</i>	target of brain insulin
4	Contig31_pilon.176	<i>rad52</i>	DNA repair protein RAD52 homolog
5	Contig150_pilon.2	<i>tymp</i>	thymidine phosphorylase
6	Contig859_pilon.172	<i>nphs1</i>	Nephrin
7	Contig210_pilon.12	<i>hes7</i>	hairy and enhancer of split 7
8	Contig1453_pilon.52	<i>ino80e</i>	INO80 complex subunit E
9	Contig17_pilon.57	<i>rtn3</i>	Reticulon-3
10	Contig173_pilon.124.1	<i>ttl11</i>	tubulin tyrosine ligase-like family member 11
11	Contig2614_pilon.17.1	<i>rad9a</i>	cell cycle checkpoint control protein RAD9A
12	Contig1218_pilon.3	<i>orc4</i>	origin recognition complex subunit 4
13	Contig405_pilon.32	<i>nhej1</i>	non-homologous end-joining factor 1
14	Contig1236_pilon.75	<i>ercc1</i>	DNA excision repair protein ERCC-1
15	Contig2450_pilon.51	<i>gramd1c</i>	-GRAM domain-containing protein 1C
16	Contig1232_pilon.3	<i>mbd4</i>	methyl-CpG-binding domain protein 4
17	Contig79_pilon.12	<i>pms1</i>	DNA mismatch repair protein PMS1
18	Contig132_pilon.13	<i>rexo1</i>	RNA exonuclease 1 homolog
19	Contig77_pilon.52	<i>taspl</i>	Threonine aspartase 1
20	Contig77_pilon.31.17	<i>nsmce4a</i>	Non-structural maintenance of chromosomes element 4 homolog A
21	Contig1371_pilon.1	<i>fancl</i>	E3 ubiquitin-protein ligase FANCL
22	Contig446_pilon.62	<i>gtf2h3</i>	General transcription factor IIH subunit 3
23	Contig423_pilon.55	<i>exo1</i>	exonuclease 1
24	Contig1717_pilon.109	<i>phr</i>	deoxyribodipyrimidine photo-lyase
25	Contig984_pilon.15	<i>sprtn</i>	SprT-like domain-containing protein Spartan
26	Contig1085_pilon.20.1	<i>dmap1</i>	DNA methyltransferase 1-associated protein 1
27	Contig622_pilon.196	<i>aste1</i>	Protein asteroid homolog 1
28	Contig622_pilon.209	<i>twistnb</i>	DNA-directed RNA polymerase I subunit RPA43
29	Contig1049_pilon.1	<i>ascl1a</i>	achaete-scute complex protein
30	Contig517_pilon.60	<i>mgmt</i>	Methylated DNA protein cysteine methyltransferase
31	Contig80_pilon.23	<i>polk</i>	DNA polymerase kappa
32	Contig966_pilon.20	<i>fam73a</i>	Protein FAM73A
33	Contig2719_pilon.14	<i>cpb2</i>	carboxypeptidase B2
34	Contig1619_pilon.27	<i>nom1</i>	nucleolar MIF4G domain-containing protein 1