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Characterization and gene mining of BAC resource of *Clarias magur* for their potential applications in genomic research

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SUPPLEMENTARY MATERIAL

S.No.	BAC Clone Id	Gene ID	Gene name	Gene length	Exons	Gene descriptions	Exon location on genomic sequence	Strands	Scaffold	Genomic Accession	Protein id	No. of Amino acid
1	012A23	1878402168	mfsd7	27465	7	major facilitator superfamily domain-containing protein 7	376119-403583	+	Scaffold390	QNUK01000390.1	KAF5894126.1	280 aa
		1878402169	ncbp1	13532	2	nuclear cap-binding protein subunit 1	411770-425301	-	Scaffold390	QNUK01000390.1	KAF5894127.1	747 aa
		1878402165	rplX	1507	21	60S ribosomal protein L26	439045-440551	-	Scaffold390	QNUK01000390.1	KAF5894128.1	103 aa
		1878402165	il17b	320	13	interleukin-17B-like	446906-447225	+	Scaffold390	QNUK01000390.1	KAF5894129.1	106 aa
2	012K10	1878408984	croc2	40706	23	rootletin-like isoform X2	576815-617520	-	Scaffold199	QNUK01000199.1	KAF5898442.1	1771 aa
		1878408998	DAT39_0118	13464	9	espin-like protein	662542 - 676005	-	Scaffold199	QNUK01000199.1	KAF5898444.1	147aa
		1878408999	DAT39_0118	183	3	espin-like protein	676128-676310	-	Scaffold199	QNUK01000199.1	KAF5898445.1	61aa
		1878409001	sclY	5468	1	selenocysteine lyase isoform X2	693226-698693	-	Scaffold199	QNUK01000199.1	KAF5898447.1	402 aa
3	012A10	1878421816	mta2	14752	5	Metastasis-associated protein MTA2 isoform X1	2807879-2822630	+	Scaffold25	QNUK01000025.1	KAF5907126.1	663aa
		1878421817	cth1	1368	18	Zinc finger protein 36, C3H1 type-like 2	2825763-2827130	+	Scaffold25	QNUK01000025.1	KAF5907127.1	315aa
		1878421818	taf6l	13758	5	TAF6-like RNA polymerase II p300/CBP-associated factor-associated factor 65 kDa subunit 6L	2828037-2841794	+	Scaffold25	QNUK01000025.1	KAF5907128.1	875aa
4	012A6	1878409361	gnao1	34441	1	Guanine nucleotide-binding protein GO subunit alpha	484272-492656	-	Scaffold191	QNUK01000191.1	KAF5898684.1	194aa
		1878409362	tpma	13523	17	Tropomyosin alpha-1 chain	502997-510292	-	Scaffold191	QNUK01000191.1	KAF5898685.1	283aa
		1878409364	herc1	6343	19	Probable E3 ubiquitin-protein ligase HERC1 isoform X1	540049-580720	+	Scaffold191	QNUK01000191.1	KAF5898687.1	3919aa
		1878421819	DAT39_0032	8385	65	uncharacterized protein	2848076-2888747	+	Scaffold191	QNUK01000025.1	KAF5907129.1	3639aa
5	012B6	1878420406	ghrh	7296	5	Glucagon family neuropeptides-like	2717270- 2723273	+	Scaffold37	QNUK01000037.1	KAF5906130.1	140aa
		1878420409	DAT39_0041	3393	8	phosphatase and actin regulator 3-like isoform X2	2808351-2839960	+	Scaffold37	QNUK01000037.1	KAF5906133.1	503aa
6	012B8	1878393854	slc7a5	40672	6	Large neutral amino acids transporter small subunit 1-like	67064-67556	+	Scaffold882	QNUK01000882.1	KAF5888990.1	164aa
		1878393855	DAT39_0213	6004	16	carbonic anhydrase 5B, mitochondrial-like isoform X1	84642-94865	+	Scaffold882	QNUK01000882.1	KAF5888991.1	246aa
		1878393852	uba2	31610	24	SUMO-activating enzyme subunit 2	102875-109739	+	Scaffold882	QNUK01000882.1	KAF5888992.1	578aa
7	012H2	1878415233	DAT39_0077	493	8	bestrophin-1-like	1680359-1680673	-	Scaffold88	QNUK01000088.1	KAF5902572.1	82aa
		1878415234	kif18a	10224	5	Kinesin-like protein KIF18A	1682749-1708853	-	Scaffold88	QNUK01000088.1	KAF5902573.1	384aa
		1878415235	kif18a	6865	6	Kinesin-like protein KIF18A	1750501-1767083	-	Scaffold88	QNUK01000088.1	KAF5902574.1	248aa
		1878415277	adamts5	315	13	A disintegrin and metalloproteinase with thrombospondin motifs 5	984107-999628	+	Scaffold87	QNUK01000087.1	KAF5902602.1	579aa
8	012H4	1878415278	adamts1	26105	5	A disintegrin and metalloproteinase with thrombospondin motifs 1	1013971-1057508	+	Scaffold87	QNUK01000087.1	KAF5902603.1	1303aa
		1878401138	dynlrb2	16583	1	Dynein light chain roadblock-type 2	390606-391878	+	Scaffold438	QNUK01000438.1	KAF5893395.1	82aa
10	012H6	1878401139	DAT39_0168	15522	20	genetic suppressor element 1-like isoform X3	482224-498451	+	Scaffold438	QNUK01000438.1	KAF5893396.1	1127aa
		1878415277	adamts5	43538	5	A disintegrin and metalloproteinase with thrombospondin motifs 5	984107- 999628	+	Scaffold87	QNUK01000087.1	KAF5902602.1	579
		1878415278	adamts1	1273	18	A disintegrin and metalloproteinase with thrombospondin motifs 1	1013971- 1057508	+	Scaffold87	QNUK01000087.1	KAF5902603.1	1303aa
11	012H19	1878410352	SLC22A17	16228	3	solute carrier family 22 member 17	171462-177827	+	Scaffold170	QNUK01000170.1	KAF5899348.1	576aa
		1878410353	smyh3	15522	20	Myosin-7-like	183983- 248632	+	Scaffold170	QNUK01000170	KAF5899349.1	1931aa
12	012H10	1878403649	DAT39_0153	43538	5	roundabout homolog 2-like isoform X2	115270-123874	+	Scaffold346	QNUK01000346.1	KAF5894972.1	170aa
13	012H12	1878425270	Odc1	8605	3	Ornithine decarboxylase	271336-340150	+	Scaffold3	QNUK01000003.1	KAF5909558.1	1056aa
14	012H18	1878400485	al5ap	68815	10	Arachidonate 5-lipoxygenase-activating protein	447597-450014	+	Scaffold464	QNUK01000464.1	KAF5892956.1	76aa
15	012C5	1878410884	tim21	2418	7	mitochondrial import inner membrane translocase subunit Tim21	1146954-1155865	+	Scaffold159	QNUK01000159.1	KAF5899700.1	227aa
16	012B3	1878410377	NOS2	6366	49	Nitric oxide synthase, inducible-like	1266886-1301326	+	Scaffold169	QNUK01000169.1	KAF5899371.1	1231aa
17	012B11	1878417354	rb1cc1	64650	25	RB1-inducible coiled-coil protein 1	552473-565995	+	Scaffold65	QNUK01000065.1	KAF5903945.1	1532aa
18	012A5	1878413118	osr2-a	8912	5	Protein odd-skipped-related 2 isoform X1	170085-170734	-	Scaffold118	QNUK01000118.1	KAF5901142.1	256aa