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Data in brief





Data Article

Data on solute carrier transporter genes of a threatened Himalayan fish species — Schizothorax richardsonii



Ashoktaru Barat ^{a, *}, Prabhati Kumari Sahoo ^a, Rohit Kumar ^b, Chirag Goel ^c, C. Siva ^d, Shahnawaz Ali ^d

- ^a ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar 751002, Odisha, India
- ^b Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Kharghar, Navi Mumbai 410210, Maharashtra, India
- ^c ICMR Model Rural Health Research Unit, Civil Hospital, Haroli, 177220 Una, Himachal Pradesh, India
- ^d ICAR-Directorate of Coldwater Fisheries Research, Bhimtal, 263136 Nainital, Uttarakhand, India

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ABSTRACT

The Snowtrout, Schizothorax richardsonii, is a vulnerable fish species found in different rivers and rivulets of the Himalayan region. The species is also a suitable poikilotherm to study the lowtemperature tolerance as it dwells well at a temperature range of 5–20 °C. The solute carrier (SLC) group of membrane transport proteins play an integral role in cellular acclimation response. The present RNA sequencing was done to identify solute carrier transporter which are the major gene cascades responsible for transport of sugars, amino acids, oligonucleotides, ions, drugs, etc. to and from the cell organelles. A reference transcriptome database was created from liver tissue of Schizothorax richardsonii through RNA sequencing on Illumina HiSeq 2000 platform. The sequences were annotated and characterized under various solute carrier families in the species. So far, 113 transcripts were identified as solute carrier transporter genes categorized under 13 different families. This data will be useful for many researchers working on gene cloning and differential expression of solute carriers.

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^{*} Corresponding author.

E-mail addresses: ashoktaru.barat@icar.gov.in, abarat58@hotmail.com (A. Barat).

Specifications table

Subject area Biology
More specific subject area Transcriptome

Type of data Transcriptome sequences

How data was acquired RNA sequencing using Illumina HiSeq 2000 platform

Data format Raw .fasta sequence in text file and table

Experimental factors Liver samples of both control and heat shocked individuals

Experimental features De novo assembly, GO annotation, Gene identification using Blastx tool

Data source location Bhubaneswar, India

Data accessibility Data is being provided with this article

Related research article Barat A., Sahoo P.K., Kumar R., Goel C., Singh A.K. (2016) Transcriptional response to heat shock

 $in \ liver \ of \ snow \ trout \ (Schizothorax \ richardsonii) -- a \ vulnerable \ Himalayan \ Cyprinid \ fish, Funct.$

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Value of the data

- The dataset is a readily available reference of solute carrier transporter genes mined from the liver transcriptome of a non-model fish
- These will be helpful for researchers working on the same species or closely related species particularly on transporters, ion channels, etc.
- Useful for differential gene expression and phylogenetic analysis with evolutionary and comparative genomics studies.

1. Data

The raw RNA-Seq data is available on NCBI GENBANK (SRA acc. No. SRX643306). The present dataset is extracted (annotated and characterized as solute carrier transporter) from the *de novo* assembly of transcriptome data of *Schizothorax richardsonii*. Nucleotide sequences of all solute carrier genes identified in the transcriptome of *S. richardsonii* is provided in '.txt' file format.

2. Experimental design, materials and methods

The details of sample collection, experimental design, RNA isolation, and sequencing were reported earlier [1]. RNA sequence data of *Schizothorax richardsonii* (Bio-project accession no PRJNA253239) were retrieved from NCBI GenBank (https://www.ncbi.nlm.nih.gov/bioproject/PRJNA253239). The raw reads were subjected to quality check using Fast QC v.0.11.8 followed by trimming using Fastx toolkit V. 0.0.13. The trimmed and cleaned reads of both (SRR1503433 and SRR1552917) were pooled for *de novo* assembly using CLC Genomics Workbench (QIAGEN Bioinformatics, USA). The contigs so obtained were further assembled into transcripts using CAP3 [2]. The coding sequences of assembled transcripts were identified using TransDecoder v.5.5.0 (https://github.com/TransDecoder/TransDecoder/releases) on default parameters. The CDS generated through TransDecoder were matched for functional annotations using nonredundant BLASTx tool of NCBI GenBank (https://blast.ncbi.nlm.nih.gov). The

 Table 1

 Details of solute carrier families observed in the liver transcriptome of Schizothorax richardsonii.

Contig ID	SLC	Gene ID	Gene name	GeneBank	BLASTx e valu
		/cation tra			
1062810	slc4	slc4a1a	band 3 anion transport protein	NP_938152.1	0.0
1066568		Slc4a2a	anion exchange protein 2	NP_001032314.1	
1068006		Slc4a2b	anion exchanger	NP_001107912.1	
1072522	C1 - O	Slc4a7	Predicted: Sodium bicarbonate cotransporter 3	XP_009290880.1	
1036206 1069006		Slc9a3r1	Na (+)/H (+) exchange regulatory cofactor NHE-RF1	NP_997872.2	2e-135
1070924	SICIZ	Slc12a2	potassium/chloride transporters Predicted: potassium/chloride transporters	NP_001002080.1 XP_691291.2	0.0
1046148		Slc12a4 Slc12a6	potassium/chloride transporters	XP_020792176.1	
1068568		Slc12a8	potassium/chloride transporters	NP_001121749.1	
1017415		Slc12a9	potassium/chloride transporters	NP_001122020.1	
	Slc20	Slc20a1a	sodium-dependent phosphate transporter	NP_998344.1	0.0
1059836		Slc20a1b	sodium-dependent phosphate transporter 1-B	NP_997753.1	2e-162
1063094	Slc26	Slc26a1	sulphate anion transporter 1	NP_001074136.1	0.0
1054148		Slc26a2	Predicted: sulfate transporter	XP_020359215.1	4e-178
1068556		Slc26a5	prestin	NP_958881.1	0.0
1059638		Slc26a11	sodium-independent sulfate anion transporter	NP_956061.1	0.0
Amino ac	id and	oligopept	ide transport		
1061674	Slc1	Slc1a3a	excitatory amino acid transporter 1	NP_997805.1	0.0
1035372	Slc3	Slc3a2b	amino acid transporter heavy chain	NP_958922.2	4e-108
1057762	Slc7	Slc7a1	PREDICTED: high affinity cationic amino acid transporter 1 isoform	XP_683623.4	0.0
1068818		Slc7a3	cationic amino acid transporter, $y + system$	NP_001007330.2	
1063888		Slc7a6	Y + L amino acid transporter 2	NP_001018310.1	
1018741		Slc7a9	PREDICTED: B $(0,+)$ -type amino acid transporter 1	XP_005169080.1	
1061224	Slc17	Slc17a5	Sialin [Danio rerio] anion/sugar transporter	NP_001070195.1	0.0
1062834		Slc17a9b	anion/sugar transporter	NP_001002635.1	0.0
1069738			proton-coupled amino acid transporter 1	XP_687732.4	0.0
1069074	Slc38		sodium-coupled neutral amino acid transporter 2	NP_001038569.1	
1070630		Slc38a3	sodium-coupled neutral amino acid transporter 5	NP_001002648.1	
1067430		Slc38a4	sodium-coupled neutral amino acid transporter 4	NP_001005944.2	
1034094		Slc38a6	probable sodium-coupled neutral amino acid transporter 6		
1067684	C1 - 42	Slc38a7	putative sodium-coupled neutral amino acid transporter 7	NP_001003648.1	
	SIC43	Slc43a1a	amino acid system L transporter	NP_001314915.1	
1002903		Slc43a1b	large neutral amino acids transporter small subunit 3	NP_001076469.1	
1013829		Slc43a2a	large neutral amino acids transporter small subunit 4	NP_956545.1	2e-61
972610		Slc43a2b	large neutral amino acids transporter small subunit 4	NP_001008585.1	
1059342 Francos	of al-	Slc43a3b	solute carrier family 43 member 3 other sugars	NP_001035011.1	0.0
1066294			solute carrier family 2, facilitated glucose transporter member 1-like	XP_020346873.1	0.0
1009559		Slc2a2	glucose transporter 2	KC513421.2	1e-106
1068576		Slc2a8	solute carrier family 2, facilitated glucose transporter member 6	NP_997963.1	0.0
1062118		Slc2a12	solute carrier family 2, facilitated glucose transporter member 12	NP_956832.1	0.0
1039720			sodium/glucose cotransporter 2	NP_998091.1	9e-88
1044578	Slc50	Slc50a1	sugar transporter SWEET1	NP_001012515.1	2e-115
			organic anions	WHITE OC.	5 405
1045170			SLC10A3-like protein, partial	KJ777502.1	5e-105
1067754	SIc13	SIC13a5	Di- and tricarboxylate transporter [Carbohydrate transport and metabolism]	NP_001136038.1	0.0
		te transpo			
1065692	Slc16		thyroid hormone transporter	NP_001245159.1	
1056880		Slc16a3	monocarboxylate transporter 4	NP_997873.1	0.0
1071962		Slc16a4	monocarboxylate transporter 5	NP_001074068.2	
1061320		Slc16a7	monocarboxylate transporter 2 like	XP_004070979.1	

(continued on next page)

Table 1 (continued)

1021622	e-94 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
NP_001073648.1 NP_001073648.1 NP_001073648.1 NP_001073648.1 NP_001003322.1 NP_00103322.1 NP_00103331 NP_00103323.1 NP_00103323.1 NP_00103323.1 NP_00103323.1 NP_00103323.1 NP_00103331.1	e-94 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
Netalion Section Sec	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
1048352 Slc30 Slc30a1a zinc transporter 1 NP_957173.1 0.00	.0 .0 .0 e-14 e-28 e-76 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 e-44 .0 e-102
1069498	.0 .0 .0 e-14 e-28 e-76 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 e-44 .0 e-102
1040510	.0 e-14 e-28 e-76 .0 .0 .0 .0 .0 .0 .0 e-44
1003631 Slc39 Slc39a1 zinc transporter ZIP1 zinc transporter ZIP3 NP_020353560.1 10203656 Slc39a4 zinc transporter ZIP4 NP_001124249.1 10203656 Slc39a6 zinc transporter ZIP6 NP_001013558.1 0.00103755.1	e-14 e-28 ie-76 .0 .0 .0 .0 .0 .0 .0 .0 e-44
1039056	e-28 ie-76 .0 .0 .0 .0 .0 .0 .0 .0 e-44
1044232	e-76 .0 .0 .0 .0 .0 .0 .0 e-44 .0 e-102
1043306	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
1067228 Slc39a10 ZIP Zinc transporter AB988007.1 0.00	.0 .0 .0 .0 .0 .e-44 .0 e-102
1067228 Slc39a10 ZIP Zinc transporter AB988007.1 0.00	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
1059932	.0 .0 e-44 .0 e-102
1045216 Slc41 Slc41a1 Divalent cation transporter FQ310506.3 0.0	.0 .0 e-44 .0 e-102
Transport Sica Si	.0 e-44 .0 e-102
1069812 Slc6 Slc6a13 neurotransmitter transporter NP_001004533.1 0.0	e-44 .0 e-102
Series Sic S	e-44 .0 e-102
1051398 SIc22 SIc22a2 organic cation transporter NP_998315.1 0.0 1031164 SIc22 SIc22a18 organic cation transporter NP_001032462.1 3e 1051684 SIc44 SIc44a4 SIc44a4 SIc44a4 SIc44a4 SIc44a4 SIc45a1 organic cation transporter NP_956707.1 0.0 1035792 SIc23 SIc23a1 nucleobase transporters NP_001166970.1 4e 1064658 SIc33 SIc33a1 acetyl-coenzyme A transporter NP_957402.1 2e 1062610 SIc46 SIc46a1 proton-coupled folate transporter NP_956579.1 0.0 1097095 SIc52 SIc52a2 riboflavin transporter NP_955950.1 8e 1063614 SIc29 SIc29a1a Equilibrative nucleoside transporter NP_001025348.1 0.0 1031960 SIc35 SIc35b1 solute carrier family 35 member B1 NP_001025348.1 0.0 1031960 SIc35 SIc35b2 adenosine 3′-phospho 5′-phosphosulfate transporter NP_991198.1 0.0 1063694 SIc35b2 adenosine 3′-phospho 5′-phosphosulfate transporter NP_991198.1 0.0 1047578 SIc35b3 adenosine 3′-phospho 5′-phosphosulfate NP_997817.2 0.0 1047578 SIc35b4 UDP-xylose and UDP-N-acetylglucosamine NP_997817.2 0.0 1045786 SIc35c1 GDP-fucose transporter NP_997808.1 2e 1045762 SIc35c2 ovarian cancer overexpressed 1: Triose-phosphate NP_997808.1 2e 1045765 SIc35c4 solute carrier family 35 member E1 NP_998239.1 1e 1013693 SIc35c4 solute carrier family 35 member E2-like XP_020362107.1 5e 1049536 SIc35c4 solute carrier family 35 member E4 NP_001017857.1 8e 1064524 SIc35f2 solute carrier family 35 member F2 NP_001070024.1 0.0 1053548 SIc27 SIc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0 1053548 SIc27 SIc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0 105454 SIc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0 105454 SIc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0 105454 SIc27a1a long-chai	.0 e-102
1031164 SIc22 SIc22a18 organic cation transporter	e-102
1051684 Slc44 Slc44a4 Choline transporter-like protein 4 NP_956707.1 O.0	
Transport vitamins and cofactors 1035792 Slc23 Slc23a1 nucleobase transporters NP_001166970.1 4e 1064658 Slc33 Slc33a1 acetyl-coenzyme A transporter 1 NP_957402.1 2e 2e 2e 2e 2e 2e 2e 2	.0
1035792 Slc23 Slc23a1 nucleobase transporters NP_001166970.1 4e	
1064658 Slc33 Slc33a1 acetyl-coenzyme A transporter 1 NP_957402.1 2e	0 174
1062610 Slc46 Slc46a1 proton-coupled folate transporter NP_956579.1 0.0	
NP_955950.1 Section NP_95750.1 Sec	e-136
Nucleoside/nucleotide transport 1065114 Slc29 Slc29a1a Equilibrative nucleoside transporter 1 NP_001025348.1 0.6 1031960 Slc35 Slc35b1 solute carrier family 35 member B1 NP_001004583.1 4e 1063694 Slc35b2 adenosine 3′-phospho 5′-phosphosulfate transporter 1 NP_991198.1 0.6 1055528 Slc35b3 adenosine 3′-phospho 5′-phosphosulfate NP_001035084.1 0.6 1047578 Slc35b4 UDP-xylose and UDP-N-acetylglucosamine NP_997817.2 0.6 1045786 Slc35c1 GDP-fucose transporter 1 NP_001008590.1 0.6 1027680 Slc35c2 ovarian cancer overexpressed 1: Triose-phosphate NP_997808.1 2e 1055762 Slc35e1 solute carrier family 35 member E1 NP_998239.1 1e 1049536 Slc35e4 solute carrier family 35 member E2-like XP_020362107.1 5e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001017857.1 8e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 <t< td=""><td></td></t<>	
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1045786 Slc35c1 GDP-fucose transporter 1 NP_001008590.1 0.0 1027680 Slc35c2 ovarian cancer overexpressed 1: Triose-phosphate Transporter family NP_997808.1 2e 1055762 Slc35e1 solute carrier family 35 member E1 NP_998239.1 1e 1013693 Slc35e2 solute carrier family 35 member E2-like XP_020362107.1 5e 1049536 Slc35e4 solute carrier family 35 member E4 NP_001017857.1 8e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 0.0 Transport of fatty acids, prostaglandins and steroid sulphates NP_001013555.1 0.0	.0
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1055762 Slc35e1 solute carrier family 35 member E1 NP_998239.1 1e 1013693 Slc35e2 solute carrier family 35 member E2-like XP_020362107.1 5e 1049536 Slc35e4 solute carrier family 35 member E4 NP_001017857.1 8e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 0.0 Transport of fatty acids, prostaglandins and steroid sulphates 1053548 Slc27 Slc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0	
1013693 Slc35e2 solute carrier family 35 member E2-like XP_020362107.1 5e 1049536 Slc35e4 solute carrier family 35 member E4 NP_001017857.1 8e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 0.0 Transport of fatty acids, prostaglandins and steroid sulphates 1053548 Slc27 Slc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0	e-179
1049536 Slc35e4 solute carrier family 35 member E4 NP_001017857.1 8e 1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 0.0 Transport of fatty acids, prostaglandins and steroid sulphates 1053548 Slc27 Slc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0	
1064524 Slc35f2 solute carrier family 35, member F2 NP_001070024.1 0.0 Fransport of fatty acids, prostaglandins and steroid sulphates 1053548 Slc27 Slc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0	
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1053548 Slc27 Slc27a1a long-chain fatty acid transport protein 1 NP_001013555.1 0.0	.0
<u> </u>	. 0
994313 Slc27a1b long-chain-acyl-CoA synthetase NP_001070716.1 1e	
1020140 Slc27a2 long-chain-acyl-CoA synthetase NP_001020470.1 5e	
1053812 Slc27a4 long-chain fatty acid transport protein 4 NP_001017737.1 0.0	
1055764 Slc27a6 long-chain fatty acid transport protein 6 precursor NP_001070854.1 0.0	.0
Transport of fatty acids, prostaglandins and steroid sulphates, thyroid sulphates nil	
Heme transport	- 05
·	e-85
Transport across mitochondrial membranes	
	e-21
1044412 Slc25a5 ADP/ATP transporter on adenylate translocase NP_775354.1 0.0	
1054268 Slc25a6 adenine nucleotide translocator), ADP/ATP translocase 3 NP_989562.2 0.0	
	e-98
1072488 Slc25a12 mitochondrial carrier, Aralar 1 NP_997947.1 0.0	.0
1048712 Slc25a14 brain mitochondrial carrier protein 1 NP_956458.1 0.0	0
1047404 Slc25a16 mitochondrial carrier protein/graves disease carrier protein NP_991112.1 0.0	
1063614 Slc25a21 mitochondrial oxodicarboxylate carrier NP_001070100.1 0.0	.0
1062104 Slc25a22 mitochondrial glutamate carrier NP_998573.1 3e	.0 e-173

Table 1 (continued)

Contig ID SLC	Gene ID	Gene name	GeneBank	BLASTx e value
1037430	Slc25a25	calcium-binding mitochondrial carrier proteinSCaMC-2-A	NP_998422.1	4e-144
987757	Slc25a26	adenosylmethionine mitochondrial carrier protein	NP_001025314.1	2e-99
979606	Slc25a27	mitochondrial uncoupling protein 4	NP_956635.1	3e-54
1067474	Slc25a28	mitoferrin-2	NP_998284.2	3e-119
1065884	Slc25a29	mitochondrial carnitine/acylcarnitine carrier protein CACL	NP_001025408.1	2e-155
1006145	Slc25a32a	mitochondrial folate transporter/carrier	NP_956550.1	3e-113
1061138	Slc25a32b	mitochondrial folate transporter/carrier	NP_001013354.1	0.0
1041964	Slc25a33	solute carrier family 25 member 33	NP_998322.1	4e-151
1022370	Slc25a36a	solute carrier family 25 member 36-A	NP_001002667.1	2e-129
1045510	Slc25a37	mitoferrin-1	NP_001035060.1	4e-101
888952	Slc25a38a	solute carrier family 25 member 38A	NP_001070070.1	1e-27
1026578	Slc25a39	solute carrier family 25 member 39	NP_956780.1	2e-159
1058676	Slc25a40	solute carrier family 25 member 40	NP_001002360.1	0.0
1046498	Slc25a42	mitochondrial coenzyme A transporter SLC25A42	NP_001038918.1	0.0
1064802	Slc25a43	solute carrier family 25 member 43	NP_001004497.2	0.0
1058484	Slc25a44a	solute carrier family 25, member 44 a	NP_001007351.1	0.0
1019095	Slc25a47b	hepatocellular carcinoma down-regulated mitochondrial carrier homolog B	NP_001083050.1	1e-91

gene identified as solute carrier transporters were extracted from complete transcriptome assembly using in-house pearl script (Table 1).

Transparency document

Transparency document associated with this article can be found in the online version at https://doi.org/10.1016/j.dib.2019.103712.

Appendix A. Supplementary data

Nucleotide sequences of solute carrier genes identified in the transcriptome of *S. richardsonii*. Supplementary data to this article can be found online at https://doi.org/10.1016/j.dib.2019.103712.

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