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T**Y****R****K****I****A****P****W****T****Q****H****S****K****D****I****M****Q****T****L****S****R****Y****S**

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G.gallus_FIG4_polyphosphoinositide_phosphatase

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L**K****H****L****P****L****P****F****D****E****V**

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Thursday September 19, 2024

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Thursday September 19, 2024
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Thursday September 19, 2024

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span>ELYEDHGDTLSLQYGGSQLVHRVK<

T**Y****R****K****I****A****P****W****T****Q****H****S****K****D****I****M****Q****T****L****S****R****Y****Y****S****N**

="">">A
">">">F">">">S">">">D">">A">">">D">">">R">">">Q">">D">">A">">">I">">">N">">L">">F
">">">L">">">G">">V">">F">">Q">">P">">T">">E">G
">">">">K">">">

"color:dimgray;background-color:green;">SHL-----

--WELPTDYYLHHKNTMALLSP<span style="color:dimgray;background-color:

289/1585

290/1585

y;">EFFRPYELSCFDDTFCLTMTNSAK<span style="color:dimgray;background-color:purple"

; "D" F M P K H V G I D P S P F

----- T I R K P E E T G K

pan><**span** style="color:dimgray;background-color:green;">S</**span**><**span** style="color:dimgray;background-color:gray;">-</**span**><**span** style="color:dimgray;background-color:blue;">M</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">>L</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">S</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">N</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:red;">K</**span**><**span** style="color:dimgray;background-color:gray;">-----</**span**><**span** style="color:dimgray;background-color:green;">S</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">N</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:red;">K</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:purple;">E</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:purple;">E</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">A</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">V</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">L</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">Q</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:red;">R</**span**><**span** style="color:dimgray;background-color:gray;">--</**span**><**span** style="color:dimgray;background-color:red;">K</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">T</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">V</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">A</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:green;">S</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">A</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:olive;">P</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:olive;">P</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;b

294/1585

Thursday September 19, 2024	/home/bio312-user/lab04-s1-spoon/FIG/FIG.homologs.al.html	295/1585
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=RFVYLGQNQHKVDTYSQQNNAKQL

--DNMTMLTIGLPGVSLFLYEDV

span><span *style*="color:dimgray;background-color:purple;">DLDRKSAEIFD-SHIQNGKGIIQPMC</p></div>

pan><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:red;">K</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:purple;">D</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:purple;">D</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">M</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">I</**span**><**span** style="color:dimgray;background-color:gray;"></**span**><**span** style="color:dimgray;background-color:blue;">V</**span**><**span** style="color:dimgray;background-color:gray;">-----

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or:gray;">GFVQFLEG----YYIVLITKRRKMADIG--

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P**H****T****R****Q****E****G****F****D****I****F****E****D****E****L****S****N****Q****G****G****S****N****G****V**

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ay;">IPWDMAKYTKSKLCNVLDRLNVIAE</p></div>

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Thursday September 19, 2024

Thursday September 19, 2024

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an style="color:dimgray;background-color:olive;">G<span style="color:dimgray;background-co

lor:gray;">ICQHKQDKRNL-----HISSKPL--ESFAKL

Thursday September 19, 2024

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G.aculeatus_fig4a_polyphosphoinositide_phosphatase_isoform_X1

M-----P-----Q-----S-----

339/1585

340/1585

=>K>>H>>V>>>Y>>N>>Q>>Q>>E>>V>>W>>E>>L>L>>G>>R>L>D>>L>>G>>N>R>T>>K>I>>G

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Thursday September 19, 2024

Thursday September 19, 2024

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>KRTGFFSNRSNFYCHTIRPDDRWGD</p></div>

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y;background-color:purple;">DAINLF-LQVYQPSESR-PHL>-----
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n **P** **P** **Q** **E** **I** **Q** **Q** **Q** **S** **-----** **V** **K** **E** **P** **-----** **Y** **G** **L** **N** **L** **A** **E** **F** **P** **A** **A**

pan *style="color:dimgray;background-color:gray;">KD-----LLIY-ERFAHLGESQHRVERTEH-----*

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ackground-color:black;">*
S.salar_fig4a_polyphosphoinositide_phosphatase <span style="c
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E**D****H****G****D****T****L****S****L****Q****Y****G****G****S****Q****L****V****H****R****V****K****T****Y****R****K**

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-----WELPTDFYLHQRNSMALTHDRRSY

403/1585

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n >>A>>>K>-----
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S.townsendi_SYNJ1_LOW_QUALITY_PROTEIN_synaptojanin1 M-----A-----F-----

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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>TPAW--TDRILWRRKWPFDRSAE--DLD

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>GRAELK---TSDHRPVVAMIDIDIFEVE

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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S**V****P****L****F****W****E****Q****P****-****G****L****Q****V****G****S****H****R****V****R****M****S****R****G****F****E**

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Thursday September 19, 2024

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633/1585

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I**Q****E****F****Q****D****K****R****S****K****P****T****D****I****F****A****I****G****F****E****E****M****V****E**

Thursday September 19, 2024

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638/1585

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Thursday September 19, 2024

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y;">DDYDTSEK--CRTPAW--TDRVLWRRRK

Thursday September 19, 2024

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Thursday September 19, 2024	/home/bio312-user/lab04-s1-spoon/FIG/FIG.homologs.al.html	649/1585
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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024	/home/bio312-user/lab04-s1-spoon/FIG/FIG.homologs.al.html	677/1585
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689/1585

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Thursday September 19, 2024

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Thursday September 19, 2024

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726/1585

n **P** **R** **A** **G** **V** **I** **S** **A** **P** **Q** **S** **H** **V** **R** **P** **S** **V** **G** **R** **P** **T** **P** **E** **T** **Q**

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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920/1585

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924/1585

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D.rerio_sacmlla_phosphatidylinositolide_phosphatase_SAC1B

	A	N	A	Y	E	R
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937/1585

ray;background-color:gray;">DRVSTEM-TLAGIKDI-----PPS---GITR--PI

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943/1585

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pan *style="color:dimgray;background-color:gray;">ISKDTN--H-----MDGLRRHFESQVLIYGK*

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S**M****E****N****G****F****I****K****Y****I****A****F****D****F****H****K****E****C****S****K****R****W****H**

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Thursday September 19, 2024

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`-----VNGREFVDA-----`

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Thursday September 19, 2024

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Thursday September 19, 2024

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n **F** **H** **K** **E** **C** **S** **G** **M** **R** **W** **D** **R** **L** **S** **I** **L** **V** **D** **N** **V** **A** **E** **T** **Q**

1001/1585

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1006/1585

1007/1585

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Thursday September 19, 2024

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Thursday September 19, 2024

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L**S****V****D****G****F****Y****F****S****V****S****Y****D****L****T****H****T****L****Q****R****L****A****N****T****S**

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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background-color:gray;">SVNPVWSLY*

F.catus_SACM1L_phosphatidylinositol3phosphatase_SAC1_isoform_X1 M---
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>HITPEKFYVEACDDGADDVLVIDR

V**S****T****E****V****-****T****L****S****V****K****K****D****I****P****P****S****A****V****T****R****P****I****F****G**

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D.rerio_sacml1b_phosphatidylinositide_phosphatase_SAC1A M-----A-----S-----TYNSFNLHTTAE

Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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G.aculeatus_LOC120810060_phosphatidylinositol3phosphatase_SAC1B M---
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Thursday September 19, 2024

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S.salar_LOC106605518_phosphatidylinositol3phosphatase_SAC1Blike M---

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YEKFNLHTTPEKFYIEACDDGSNDV

L**S****I****D****R****V****S****T****E****M****I****L****T****V****R****K****D****I****P****P****H****A****V****T**

Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

1137/1585

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Thursday September 19, 2024

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1160/1585

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1162/1585

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olor:red;">KATDFDVLSYKKTMLHLTDI-----
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Thursday September 19, 2024

Q**R****F****V****W****N****G****H****L****L****R****E****L****S****A**--**Q****P****E****V****H****R****F****A****L****P**

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H.sapiens_SACM1L_phosphatidylinositol3phosphatase_SAC1_isoform_1x M---
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-----AAYEQLKLHITPEKFYVEA

Thursday September 19, 2024

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ay;">NGHLLRELSA--QPEVHRFALPVLHGF

I**T****M****H****S****C****S****I****N****G****K****Y****F****D****W****I****L****I****S****R****R****S****C****F**

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Thursday September 19, 2024

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C.mydas_INPP5F_phosphatidylinositide_phosphatase_SAC2_isoform_X2 **M---**

Thursday September 19, 2024

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Thursday September 19, 2024

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**/span>QC-----QTRIIIQI-----*
G.gallus_INPP5F_phosphatidylinositolide_phosphatase_SAC2_isoform_X2 M-----
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Thursday September 19, 2024

span><span *style*="color:dimgray;background-color:purple;">D</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">L</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">T</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">N</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">S</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">V</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">Q</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:red;">R</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">Q</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">S</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">A</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">C</**span><span** *style*="color:dimgray;background-color:gray;">--</**span><span** *style*="color:dimgray;background-color:purple;">E</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:red;">K</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:green;">T</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:purple;">D</**span><span** *style*="color:dimgray;background-color:gray;">-----</**span><span** *style*="color:dimgray;background-color:blue;">L</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:olive;">P</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">L</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">W</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:red;">R</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:red;">K</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:blue;">V</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span** *style*="color:dimgray;background-color:purple;">D</**span><span** *style*="color:dimgray;background-color:gray;"></**span><span**

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

Thursday September 19, 2024

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Thursday September 19, 2024

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F.catus_INPP5F_phosphatidylinositide_phosphatase_SAC2_isoform_X1 M---

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PPPEQPPL---PVKCNRIYQIMWANNGDSI

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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ground-color:gray;">S>>FY>YS>>L>T>Y>D>>L>>T>>N>>S>>V>>Q>>R>>Q>>S>>T>>G>-->E>>R>>D>>G>-----

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S**F****V****Q****T****R****G****S****V****P****V****F****W****S****Q****V****-****G****Y****R****Y****N****-****P****R****P**

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K**Q****V****I****I****N****L****V****D****Q****A****G****R****E****K****I****I****G****D****A****Y****L****K****Q**

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Thursday September 19, 2024

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an>YHSD-EFLTNSKSDEDRQLANSLES

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Thursday September 19, 2024

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S.salar_inpp5f_phosphatidylinositolide_phosphatase_SAC2 -----ELFQAKD<*

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--*
S.salar_LOC106604534_phosphatidylinositol_phosphatase_SAC2like_i M---
-----ELFQAKDHYILQSGDHALS

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Thursday September 19, 2024

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G**A****P****T****K****K****K****Y****S****P****A****F****Q****V****K****E****N****K****E****K****R****L****E****R**

1451/1585

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Thursday September 19, 2024

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Thursday September 19, 2024

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r:blue;">VMWANNGDTISRQYAGTALKGDFT<span style="color:dimgray;background-color:

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Thursday September 19, 2024

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Thursday September 19, 2024

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color:dimgray;background-color:gray;">AMFTQC-----QTRIIQI-----*

D.rerio_inpp5f_phosphatidylinositide_phosphatase_SAC2_isoform_X1 M---

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Thursday September 19, 2024

1492/1585

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Thursday September 19, 2024

green;">QVKENKEKERLERLLDELYKIFMD

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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Thursday September 19, 2024

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420^	440^	460^	480^
500^	520^	540^	560^
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660^	680^	700^	720^
740^	760^	780^	800^
820^	840^	860^	880^
900^	920^	940^	960^
980^	1000^	1020^	1040^
1060^	1080^	1100^	1120^
1140^	1160^	1180^	1200^
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2020^	2040^	2060^	2080^
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2340^	2360^		

Number of sequences: 42
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Sequence type: aa
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