

	10	20	30	40
PRTA_ACIST	-ARRRRRHAS	TKLKRRR---	-----RRRRH	GKSKSHK
PRT_ORYLA	----MRRQAS	LPARRRRRV	RTRVVRRRR	VGRRRH
PRT_PERFV	--PRRRRHAA	RPVRRRRRTR	RSSRVHRRR	AVRRRR
PRTB_MUGCE	--PRRRRETS	RPIRRRRRAR	RAPI-RRRR	VVRRRR
PRT1_SCOSC	-MPRRRRRAS	RPVRRRRRAR	RSTAVRRRR	VVRRRR
PRT2_SCOSC	-MPRRRRRAS	RPIRRRRRAR	RSTAVRRRR	VVRRRR
PRT_DICLA	--PRRRRQAS	RPVRRRRRTR	RSTAERRRR	VVRRRR
PRTY_THUTH	--PRRRRQAS	RPVRRRRRYR	RSTAARRRR	VVRRRR
PRTZ_THUTH	--PRRRRRSS	RPVRRRRRYR	RSTVARRRR	VVRRRR
PRTZ1_SAROR	--PRRRRRSS	RPVRRRRRYR	RSTAARRRR	VVRRRR
PRTB_ACIGU	--ARRRRRSS	RPQRRRR--	-----RRHGR	RRRGRR
PRTB_ACIST	--ARRRRRSS	RPQRRRR--	-----RRHGR	RRRGRR
PRTY1_CLUHA	--ARRRRSSS	RPIRRRRPRR	RT---TRRRR	AGRRRR
PRTY1_CLUPA	--ARRRRSSS	RPIRRRRPRR	RT---TRRRR	AGRRRR
PRT1_ESOLU	-PRRRRASSG	RPVRRRRRP-	KMS--RRRR	GGRRRR
PRTZ_CLUPA	ARRRRSRRAS	RPVRRRRRP-	RVS--RRRR-	-ARRRR
PRTZ_CLUHA	ARRRRSRRAS	RPVRRRRRP-	RVS--RRRR-	-ARRRR
PRT4_ONCMY	-MPRRRR-AS	RRIRRRRRP-	RVS--RRRRG	GRRRRR
PRTY2_CLUPA	-PRRRTRRAS	RPVRRRRRP-	RVS--RRRR-	-ARRRR
PRTY2_CLUHA	-PRRRTRRAS	RPVRRRRRP-	RVS--RRRR-	-ARRRR
PRT3A_ONCMY	-PRRRRRSSS	RPIRRRRRP-	RVS--RRRR	GGRRRR
PRTIB_ONCMY	PRRRRRRSSS	RPIRRRRRP-	RVS--RRRR	GGRRRR
PRT1B_ONCMY	-MPRRRR-AS	RRIRRRRRP-	RVS--RRRR	GGRRRR
PRT1A_ONCMY	-MPRRRR-AS	RRVRRRRRP-	RVS--RRRR	GGRRRR
PRTC3_ONCMY	-MPRRRR-AS	RPVRRRRRP-	RVS--RRRR	GGRRRR
PRT2C_ONCMY	-MPRRRRSSR	RPVRRRRRP-	RVSR-RRRR	GGRRRR
PRT14_ONCMY	-MPRRRRSSR	PPVRRRRRP-	RVSR-RRRR	GGRRRR
PRT2_ONCMY	--PRRRRSSS	RPVRRRRAR-	RVSR-RRRR	GGRRRR
PRT2A_ONCMY	--PRRRRSSS	RPVRRRRRA-	RVSR-RRRR	GGRRRR
PRTIA_ONCMY	--PRRRRSSS	RPVRRRRRP-	RVSR-RRRR	GGRRRR
PRT1_ONCKE	-MPRRRRSSS	RPVRRRRRP-	RVSR-RRRR	GGRRRR
PRT2B_ONCMY	-MPRRRRSSS	RPVRRRRRP-	RVSR-RRRR	GGRRRR
PRT16_ONCMY	-MPRRRRSSS	RPVRRRRRA-	RVSR-RRRR	GRRRRR
PRT17_ONCMY	-MPRRRRSSS	RPVRRRRRP-	RVSR-RRRR	GRRRRR

Supplemental Figure 1. Alignment of fish protamines.