**S1 AQP Sequences**

Protein sequences of the *Balanus improvisus* aquaporins and their accession numbers

>AQP1\_1a [PCR clone-KY508284]

MPAWSTAREGLGLQEVVNNKDLWKTLLAEFVGTLFLVFIGCLTCIGWTDE

GYAPSVVQIALGFGITVATMAQSIGHISGCHINPAVTVAMIVTRKIPLFR

ALCYIVMQCMGAAAGSALLKALTPEDIHGTLGMTQLNPKLTAAQGFGVEA

LITFVLVLVVFGVCDERREDVLGSGPLAIGLSVTTCHVGAIKYTGASMNP

ARSFGPALVTGLWDNHWVYWAGPVFGGLLAGGLYATAFRAGRLHSASDSD

REDTKMEKYEP\*

>AQP1\_2 [assembled from pacbio read-KY508286 and aa 1-40 of AQP1\_1]

MPAWSTAREGLGLQEVV

NNKDLWKTLLAEFVGTLFLVFIGCLTCIGWTDEGYAPSVVQIALGFGITVATMAQSIGHI

SGCHINPAVTVAMLVTRNIPLFRALCYIVMQCMGAAAGSALLKALTPEDIHGTLGMTQLN

PKLTAAQGFGVEALITFVLVLVVFGVCDERREDVLGSGPLAIGLSVTTCHVGAIKYTGAS

MNPARSFGPALVTGLWENHWVYWLGPLLGGVLAGKLYKDCFLSEKLGTQKHHHHRTPRCA

DCGLLLPPHGGGEEEELKTRRSSRDPLVTGPEEGTGDKQELV\*

>AQP2\_1b [PCR clone-KY508287]

MAWSTLEEALGLKEMVRNRDLWKALLAEFLGT

MLLTLIGCFSTIGWAANDDKDPYTPDMTQIALAFGITVATLAQSIGHISG

CHINPAVTAGMLVARQVSLMRAFFYIIVQCIGAIVGSALLKALTPEDVQG

SLGMTTVNPKLTAFQGFGVELFITFVLVFVVFGVCDEGRDDVKGSAPLAI

GLSITGCHLGAIKYTGSSMNPARTFGPAVVTGIWDNHWVYWAGPLAGGII

AGLVYTHAFRARHMAVAAVELTGLTEVKPQRGSK\*

>AQP2\_2 [Trinity contig-KY508289]

MAWSTLEEALGLKEMVRNRDLWKA

LLAEFLGTMLLTLIGCFSTIGWAANDDKDPYTPDMTQIALAFGITVATLAQSIGHISGCH

INPAVTAGMLVARQVSLMRAFFYIIVQCIGAIVGSALLKALTPEDVQGSLGMTTVNPKLT

AFQGFGVELFITFVLVFVVFGVCDEGRDDVKGSAPLAIGLSITGCHLGAIKYTGSSMNPA

RTFGPAVVTGIWDNHWVYWLGPMFGGCLAAKIYKDSFLACKLAPPLHCSVRRIVRGPEEP

EYETPAPEKKMLLDDVDGKMDGKMDGKMDGKLDGKMDGNGKPDDSTLSDPERTTDI\*

>BIB [PCR clone-KY508290]

MAITSLSAETLDSHILALLDKLDHV

QGELSPPPARLPMHVEVRRLEFWRAIIAECMATFFFVFLICAANVPWSTHWASQSLIAGA

FTAGFAAAALTQCFWRVSGAHMNPAVTLAHASTRKISPLRCLLYVTAQCGGAIAGAALLY

GSSTTSLQGSLGVTVVTPPLTAWQGFGVEFVLTFILVFVVFSVSEPSRRPLGNSSVVIGF

TYLAVSLAGIRCTGASMNPARSLGPAFVMNIWKDHWVYWFSPLTAAVIAAYVHEYIFNPN

RRYRLKDTMDNESLGGQSDDEVFDEERPKLSPADYNTLRSQTYAAYAPASKASPAGGARS

VFSVPAYRGGVSRAESVYGGTKSLYACSPPPSRANLARSQSVYTKERRCGMEPRAGITAA

QSVYPRIGGGGGGLAESMYATRAPRQETVYRPAEPVDSQKQQLYSAKEDALSYSTATTHF

TASSRPDDYAAYSPRHDDYGVYGKQDLYGKQQDVYGKQPELYAKPQYPGSYQSAAAENAH

NQRNASGRPHTSGGGGLPAYGAYSGRAGPPPPPPPRNGDMMSPRSMAGSETTSGLTTPNS

VSSYR\*

>BIBL1c [assembled from PCR clone-KY508291 and DNA contig-KY508298]

MAGGLDGSSE

TALTPVELMLRYLESLPQEFSFREEVRSPKFWKALRAEFLASLLLVVFLSSGGIGIGVGV

GVGTGVGTGVGSGGGVGTHSGVGADVHAAATTISSSSSGGSNSGSGSSGHANPGPVISPS

AHSSNSSTSSGPLADTGAAVRMALAYCLTAATLIQCFGNVSGAQTNPAVTLSLLVTRYISPLRAAA

YVTVQLAGALCGALIVLGLTPPDWPDQPQVLAVASGVTLTQAFGVEFLAT

FIAVVTTLAVLDPVRADVGCKALSIGLAYGLGVLFSFQRTGACLNPVRAL

GPALVNNVWKDHWVYWVGPLFGGLLGGFTYEFVHDSSPHGRFLHRSFRRR

RGGQQPSRSGGALGRDVSGLSAATSELLQHPGTEDISTVSRH\*

>BIBL2 [PCR clone-KY508294]

MAGGSDGREELAMSPVEMMRRYLDSLPHDFSVREELGSPKFWKAV

RAELLGSLLVAVFVTGAAAGHPRASGDGAGGDGGGDGGSDGGARAALAYA

LTAATLVQSLGSVSGAHANPAVTLCLLVRRLVSPLRAAVYVTAQLAGGLA

GALILYGLTPPGAALTDQVASVRPGVSLPQAFGAELLATFLVALATLAVL

EPVREDVGTKALSVGLAYGAGALFAFQLTGAGLNPARTLGPAVMYNVWTN

HWVYWVGPLFGGLLGGFTYEFVHEASAQGRLVRRSFRRRPCSSSDNGSSN

DGDDGGSGVRGQRDGLVPGQLGREVSGLSTTATDCLQLSTTTDCLQLSTT

EDASAAGRH\*

>GLP1 [PCR clone-KY508295]

MILTMNRVRRACGIKHPIVRESLAELIGTATLVFFGDAAIANNMGSN

VGSTVNVPLGYATALALAVYVSGGVSGGHVNPCVTMGMCLTGRCDLNRLL

PFTIAQFIGAFLGAALTHGLFFDVFQLDLARSKSMYGVFATYPNPIISTM

GAFLDQTMGTAMLLFGIMAVTDAKNMNVPKGGIPACIGLVLFGVITASGS

NTGAALNPARDFSPRLYSYIIGYDNVFTEDDNFFWIPIVACYVGCVIGAF

LYFFCIEVHHPAELKDGEEQDVTTRIYKNYTTVVEPPTSRGPAGPAGRPA

GPSGRPAGPAGPAGPAGRPDSAPELGQRNGGFRDDADRPRSGGYPRDPGY

PKDSSYPRDPSYPRDPSYPRGPAYPRNESFRDERYM\*

>GLP2 [PCR clone-KY508296]

MLLRLDRLRRACRLRHPLLRETLAELLGTTTLVFIGNS

VIANNVKNPLVASVNVPLGYVSAVIISVFATGGVSGGHVNPAVTLALCLA

GRCDLNRLLPFWGAQYLGGFLGALLTHILFFDLIQTDPDRINPAMYGIFA

TYPNDNISIGGAFSDQVLGTAILVFGCMAISDKRNMNVPKPMLPVAVGIV

LYGAISSSGSNTGAALNPARDFGPRIYSYMIGYQQVFSAGHCFWWIPVVA

CYIGGVLGAYVYLFCVELHHPVEDGQETMTITSAATPVDRKKTAWENAAM

ELEGNL\*

>AQP12 [PCR clone-KY508297]

MSLAVSTSLILLACLLAHLLRLVVRRTVTADEPRRL

LHEAITASELCACAFELGIIANSYGVATYAVYLFLLIIYQSYAWGEVYAC

PYLNVEDWWLGRQPASRALLRILAEVAGGWLTWRYVRALWWLELAAGHRG

RWLETCTADLQVSPWHGALVEGVAVLLCRLVARALDERQHRFAAAIDSFC

ATTLVIAGFNYSGGYYNPMLASALKLGCHGHTVTEHLAVYWGAATAGALL

STQLYPLLRPALIARPDAKRD\*

a For AQP1\_1 an additional sequence (KY508285), covering the ORF as well as parts of the 5´ and 3´ UTR, was obtained from a Trinity contig.

b For AQP2\_1 an additional sequence (KY5082889), covering the ORF as well as parts of the 5´ and 3´ UTR, was obtained from a Trinity contig.

c For BIBL1, the sequences of two RNA contigs covering parts of the DNA contig- KY508298 has accession nr:s KY508292-93.