

ZnIA20/1-234 MAWNR FGDDEEGSLELSLPL GYFSGPTQAAAFEDKADGSAAAA
 ZnIA33/1-228 MAWNR FGDDEEGSLELSLPL GYFSGPDQAAFEEKASRSAAAPP
 ZnIA4/1-228 MAWRPLGAGEALDLSLESLPL AYFA-RPSGLDAAREEAEASAYAIQ
 ZnIA16/1-289 MGDAETNKTLHNMWEPFRPSSDQRDEETLQLSLGLPG GGASAGGGVAAWRMLPARDEEMRSAAVVDTSLLSLG
 ZnIA9/1-357 DQKE RKGREADDAGRSKNSSGGGG EED AKLELKLGLPGLTLVEEGTTATVPRDGVQLQRETTITLTLSCFRNPKSRAVDAATA
 ZnIA23/1-346 DEREWTVTREVVEDGGAGSSTSATATAASDHEEEDYSKLELRCLPG AQDDERTPPPPG EKGTCTALSLGGCFPSHFKLAASASATAATW
 ZnIA11/1-251 MKLKG EQADDDCSKMQGGRGLMSLELRLGSSDNG DASCGDPLWLVG
 ZnIA34/1-355 MLNLAFETPPLRQRERTNTIVTATAAARGN EESSNTLQLHGHLDLGLGSLSHGGGGGGSCDASSCGGNKQDSYGGGQ
 ZnIA6/1-198 MAECK DDDS GRRSPSSMDSST
 ZnIA18/1-197 MELEGLAP FNPH QPLAAAAEFVGLLSSAG
 ZnIA30/1-216 MELEGLAL PTRHR QPLAA GLLGEGAG
 ZnIA17/1-206 MELEGLAP PSARRPTMTIDQQQQQLRLAEDELSSSTSD
 ZnIA12/1-293 MRGGGAGPTAAFMSDEPPPADAEVEENSQAEE EDEETVVEGDDLELGLLQSKQQQQHPPPCRIILTA
 ZnIA1/1-225 MEVAAAASYSYYLEAADDV DNLRALELRGLPGTA AEEEEEARQAKVAAPP
 ZnIA9/1-229 MEVAAAASYSYYLEAADDV DNLRALELRGLPGTEE KEAEEEP QHKAAPP
 ZnIA15/1-224 METVVG DLMATELRGLPGTVD DCSHQHQQTQLKVAAPP
 ZnIA32/1-226 METVVG DLMATELRGLPGTVD DCSQV PQLVKATPPS
 ZnIA3/1-202 MEMIDA ELRGLPPGSSN SDVVTVVPPAAARKFAA
 ZnIA13/1-181 MEMIDA ELRGLPPGSSN RDVINVVQPSLAA
 ZnIA25/1-66 DGVDLTLETLGPPGVN DGVDLTLETLGPPGVN
 ZnIA24/1-115 MAGYGD DGVDLTLETLGPPGVN DGVDLTLETLGPPGVN
 ZnIA26/1-139 MAGYGD DGVDLTLETLGPPGVN DGVDLTLETLGPPGVN
 ZnIA10/1-269 MSPLLEPHDYIGLSAVAAAAAFTPTTPTSSSSSSSSAPRLTLRGLPGSES PDRDRD CCEDVAATLSLGLFAA
 ZnIA29/1-272 MSPLLEPHDYIGLSAAAAAAFTPTTSSSSSSSSAPRLTLRGLPGSES PDRDRDRDCEDVAATLSLGLFAATKAP
 ZnIA21/1-244 MSPLLDLDYIGLSFAAAAAAHDLLKGT ELRGLPGSSG PDRRVV AATATLDDLFAKAK
 ZnIA28/1-255 MSPLLDLDYIGLSPFAAAAAAENDELKGT ELRGLPGSSG PDRRVV AATATLDDLFAKAK
 ZnIA2/1-237 MAGADVDVG TELRGLPGGG ADAAKAAKR FEDTIDLKLPFAAMEEA
 ZnIA14/1-228 MAGADVDVG TELRGLPGGG AAAAAK KDTIDLKLPFAAMEEA
 ZnIA7/1-270 MATTDLGFEA TELRGLPGGGGGEP ALGGEGRSSSSASGRFAETIDLKLPFAAVVEEEEE
 ZnIA5/1-220 MSVFERSTES SGASGLDFEDATLTLRPGSARFAAAAAAASLSLSSSSSSAFD
 ZnIA27/1-186 MSVDERSTES SAASGLYEDTALTLRPGS SAASRLGYEDTALTLRPGS
 ZnIA22/1-231 WSTARSPSFLFLSLGLRFPQSQSRRARSFACTPPFAMSVDERSTES SAASRLGYEDTALTLRPGS SAASRLGYEDTALTLRPGS
 ZnIA31/1-255 WSIA SPSPFLFLSLGLRFPQSQSRRARWFACTPPFAMSVDERSTES SAASRLGYEDTALTLRPGS SAASRLGYEDTALTLRPGS
 ZnIA19/1-198 MQQDLRNSER RNPEQAHP VMSAS TNSAAS FAVSGLDYDDT ALTALPGS

I

ZnIA20/1-234 APVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKLDLGGHAGYDTLTAVDHLFRGLLSAQ
 ZnIA33/1-228 APVVGWPPVRAFRRNLATSSSKPS SHGKPEAAS ADGGNK GLFVKVNMGGVPIGRKLDLAAHAGYDTLSAAVDSLFRGLFAAQ
 ZnIA4/1-228 APVVGWPPVRAFRRNLASASSKPS SHKHTROE GSAKD GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQRD
 ZnIA16/1-289 TPVIGWPPVRAFRRNLATS SRAS LEHQNGKEDIK EQTTKR APFVKINMGGVPIGRKIDLSALGSDLSVVDKFRGLLAAQDD
 ZnIA9/1-357 AHVQLQRSPAPVVGWPPVRAFRRNLAAHHHGGSSKQPTENQSEASR KEKPACKK NPLVKINMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA23/1-346 GVDL PVVGWPPVRAFRRNLANASSKQSLDQQQNDDEASCD KAKQTCR SLLIKINMGGVPIGRKIDLSALGSDLSVVDKFRGLLAAQKD
 ZnIA11/1-251 RR SHLQVSKTVEEPAGKVKSGGERLFAATMFKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA34/1-355 RRNIIVSAMHVLINLKTAGASAVAGGGTGGSTTTATHGGGETNAAAAAALARPALAS SFMAKVVHMGYAIIGKVNLRADGGDSLRLTNMATAFFCF
 ZnIA6/1-198 DLQLGLSLSPASSALLMAETNNSIVPSTPRNQALDWPPIKFLRSALTSARRRR TLFVKVNMGGVPIGRKLDLMDLGGSLAKLCHMFKASITY
 ZnIA18/1-197 LFLVEDGDDGGDRDRDGGVVDHEQQSNVPRKRLRVLGWPVKARRSCGGG YVVKVNMGGVPIGRKVDLSLHGGYQELRLTESMFPSSNQ
 ZnIA30/1-216 LFLRDDDDGGDRGGDRGGVVDHEQQNDDEASCD KRLLVGGWPVKARRSCGGG YVVKVNMGGVPIGRKVDLSLHGGYQELRLTESMFPSSNQ
 ZnIA17/1-206 TTLPLFDGSSGGGRGGG KRPLVGGWPVLSARRSRACGGG AKYVVKVNMGGVPIGRKVDLSLHGGYQELRLTESMFPSSNQ
 ZnIA12/1-293 PGTVASGHPQSGVVVGGWPIRTFRMNSLFLNQAENASEAGAKKPIVEPDMQEDKEESKQRRT VGVVNMGGVPIGRKVDLSLHGGYQELRLTESMFPSSNQ
 ZnIA1/1-225 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA9/1-229 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA15/1-224 APVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA32/1-226 APVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA3/1-202 VRVGGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA13/1-181 QVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA25/1-66 ARKNGQDPPS SSAMTMQ AFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA24/1-115 ARKNGQDPPS SSAMTMQ AFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA26/1-139 ARKNGQDPPS SSAMTMQ AFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA10/1-269 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA29/1-272 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA21/1-244 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA28/1-255 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA2/1-237 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA14/1-228 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA7/1-270 AQVVGWPPVRAFRRNLASASSKPSRDPPPSHRGNESASVGAAGKAVEGGNK GLFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA5/1-220 ARVVGWPPVRAFRRNLADAAAGSSKA AKFVKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA27/1-186 TRVVGWPPVRAFRRNLADSSKANRS ASFKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA22/1-231 ARVVGWPPVRAFRRNLADSSKASRA ANFKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA31/1-255 ARVVGWPPVRAFRRNLADSSKASRA ANFKVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD
 ZnIA19/1-198 ARVVGWPPVRAFRRNLADDFAR LVVNMGGVPIGRKVDLTAAGYADLSAAVGLKFRGLLAAQKD

II

III

ZnIA20/1-234 LGGG EYTLVYEDDEGQMLVG DVPWGM FAATARRLRLVRSDDLNS SLRAAT RKRAAA
 ZnIA33/1-228 LGGG EHTLVYEDDEGQMLVG DVPWPM FVATARRLRLVRSDDLNS SLRAAR AAEC
 ZnIA4/1-228 LGGG DYTLYVEDDEGQMLVG DVPWEM FVATARRLRLVRSDDLNS SLRAAR PERSAADCCC
 ZnIA16/1-289 LDGSG EYTLVYEDDEGQMLVG DVPWGM FVSVKRLRLVRSDDLNS LTAPP QKRTVTECPVFTS
 ZnIA9/1-357 LDGSG EYTLVYEDDEGQMLVG DVPWNV FVSTAKRLRLVRSDDLNS TRPQIYAVPRRPPDC
 ZnIA23/1-346 LDGSG EYTLVYEDDEGQMLVG HLPWNV FVSTAKRLVMSSELPHGLIKT ASERADD
 ZnIA11/1-251 KGGGSKSNKKA ILLYEDDEGQMLVG DVPWEL FMAVSKRLYLIAQDPRTKKN
 ZnIA34/1-355 DKG FIFLYEDDEGQMLVG DVPWEL FLASAKGLYIVRKPSITRRQSG
 ZnIA6/1-198 AA HVLTYEDHGGDMMVVG DVPWEL FLGSKRLKILARTDR
 ZnIA18/1-197 VSHERRRRH FYVVTYEDDEGQMLVG DVPWEV FVKSVKRLKILAR
 ZnIA30/1-216 ASHERRRLLHR FYVVTYEDDEGQMLVG DVPWEV FVKSVKRLKILAR
 ZnIA17/1-206 AAAATTTSHRDVVVTYEDDEGQMLVG DVPWDD FARSVKRLKLLG
 ZnIA12/1-293 SE NQLTYEDRDGQMLVG DVPWEM FVSVKRLKIMRTDAKGLGPRFQSHRPTACTRGT
 ZnIA1/1-225 GGGSPDFAVTYEDKDDMLVG DVPFSS MFISTCKRLRIMKGEARLGLSAKND
 ZnIA9/1-229 AVNPSDFAVTYEDKDDMLVG DVPFSG MFISTCKRLRIMKGEARLGLSAKND
 ZnIA15/1-224 NNLSDFAVTYEDKDDMLVG DVPFSE MFISTCKRLRIMKGEARLGLSAKND
 ZnIA32/1-226 LSEFVAVTYEDKDDMLVG DVPFSE MFISTCKRLRIMKGEARLGLSAKND
 ZnIA3/1-202 CDFAVTYEDKDDMLVG DVPWE MFISTCKRLRIMKGEARLGLSAKND
 ZnIA13/1-181 CDFAVTYEDKDDMLVG DVPWE MFISTCKRLRIMKGEARLGLSAKND
 ZnIA25/1-66 DHHHAIAIYEDKDDMLVG DVPWE MFISTCKRLRIMKGEARLGLSAKND
 ZnIA24/1-115 EWEHAVVYEDGQMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA26/1-139 EWEHAVVYEDGQMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA10/1-269 SKVDALKDQEVYLYEDKDDMLVG DLPWD YFISICRKLKIMRGSDAVGLAPRTVEQTGNK
 ZnIA29/1-272 SKVDALKDQEVYLYEDKDDMLVG DLPWD YFISICRKLKIMRGSDAVGLAPRTVEQTGNK
 ZnIA21/1-244 KDG KDG YVLYEDKDDMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA28/1-255 KDG KDG YVLYEDKDDMLVG DVPWDCHI VFRSNCRMFAGS
 ZnIA2/1-237 VSGAD VVVTYEDKDDMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA14/1-228 AGDAD VVVTYEDKDDMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA7/1-270 LNS EYVPTYE KDG DMLVG DVPWE MFVSKRMRVMSCEARGLSSNA
 ZnIA5/1-220 NS EYVPTYE KDG DMLVG DVPWKM METCRRLRIMKGEAVNLAPRAAR
 ZnIA27/1-186 NS EYVPTYE KDG DMLVG DVPWKM METCRRLRIMKGEAVNLAPRAAR
 ZnIA22/1-231 D SAGT WQIT PAWS
 ZnIA31/1-255 D SAGT WQIT PAWS
 ZnIA19/1-198 EY MP TYEDKDDMLVG DVPWKM VDCRKRIRLMKGEAVNLSPRTSSRQ

IV

Figure S1