

# BARLEY EST DNA REPLICATION AND REPAIR DATABASE

Database of Barley EST Sequences Similar to Genes Involved in DNA Replication and Repair



OsPARP3	-MVHETRSRTLAASQEEGKAAPKKQKTESKEQEGGQAPSKNKKTADNEEHDGEQEPESKN	59
HvPARP3	-MVHETRSRTHAT--EEGKTAPKKQKEEHKEQEGGQERPSKNKKPVEPEAET-----KT	51
AtPARP3	MKVHETRSHAHMSG-DEQKGNLRKHKAEGLPESEQ-----SQKKAKPENDD-----	46
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OsPARP3	KKLKAEESDLNGKATAVKEFSEFCKAIREHLTIEDMRKILQGNEQDASGSEDVAVPRCED	119
HvPARP3	KKHKGGESELDGKD NATKEYTDFCKAIREHLSAEDMRKILEANGQDASGSEDVAVSSCED	111
AtPARP3	-----GRSVNGAGDAASEYNEFCKAVEENLSIDQIKEVLEINGQDCSAPEETLLAQCOD	100
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OsPARP3	VMFYGPLDKCPVCGGLECKG-LKYNCTGTHSEWACCSFSTNNPSRRGGPIKVPDDVKND	178
HvPARP3	MMFYGPLEKCPICGGGLECKG-WKYKCTGQNSEWASCIFSSNSPPRKSAPIKVPEDVSN	170
AtPARP3	LLFYGALAKPLCGGLICDNEKRFVCGGEISEWCSCVFSTKDPKRKEEPVKIPDSVMNS	160
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OsPARP3	FVRKWLK-QQEGNKYPKRNLDDEG-IFSGMMIALSGRMSRSHGYFKEQIMKHGGKVNSV	236
HvPARP3	FLNKWLK-QQEGKGYPKRDVDEEAHIFSGMMVALSGRMSRSHAYFKEQILNHGGQVKIPC	229
AtPARP3	AISDLIKKHQDPKSRPKRELGSADKPFVGMMSISLMGRLTRTHQYWKKKIERNGGKVSNTV	220
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OsPARP3	IGVTCVVASPAERHQGGSGGFAEALERGTPVVSSENWIIDSVQKKEKQPLAAYDIASDVVP	296
HvPARP3	FGVTCVVASPAERDKGGSGGFAEALERGTPVVSSENWIVDSIQKKEAQPLAAYDIVSDVVP	289
AtPARP3	QGVTCVVASPAERERGGT SKMVEAMEQGLPVVSEAWLIDSVEKHEAQPLEAYDVVSDLSV	280
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OsPARP3	EGRGLPLGNLDPTEEA IETLAAELKLAGRAVHKDSKLEKDG GHIYEKDGIIYNCAFSVC	356
HvPARP3	EGRGLPLDKLDPSEEA IETLAAELKLAGKRSVHKDSKLDKDG GCIFEKDGIIYNCAFSIC	349
AtPARP3	EGKIPWDKQDPSEEA IESFSAELKMYGKRGVYMDTKLQERGGKIFEKDGIIYNCAFSIC	340
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OsPARP3	DLGGDINQLCIMQLIMVPENHLHLYKKGPIGHDQMAEERVEDFGSRFNDAIKEFVRLFE	416
HvPARP3	DLGSETNQLCIMQLIMLPEEHLHLYKKGPIGHDQMAEERVEDFGIHVNDAIMEFARLFE	409
AtPARP3	DLGKGRNEYCIMQLVTPDNLNMYFKRKGKVGDDPNAEERLEWEDEE-AAIKEFARLFE	399
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OsPARP3	EVTGNEFEPWEREKFKKKCMKMYPLDMD DGVDVRHGGVALRQLGAAAAHCKLDPSVTFI	476
HvPARP3	EVTGNDFEPWEREKFKKSMKMYPLDMD VGFVDRHGGVALRQLGAAAAHCKLDPAISFL	469
AtPARP3	EIAGNEFEPWEREKKI QKKPKHFFPIDMD DGEVRSALGLRQLGIASAHCKLDSFVANF	459
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OsPARP3	MKQLCSQEIYRYALTEMGHDVDPDLP IGM L TDLHLKRGEETLLEWKQDVESAPESGPAADA	536
HvPARP3	LKQLCGQEIYRYALTEMAQDLPDLP IGM L TDVHLKRGEVLLWIRDAEPAPESRLAADA	529
AtPARP3	IKVLCGQEIYRYALMELGLDPPDLP MGLTDIHLKRCEVLLFVVEKVKTTKETGQKAEA	519
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OsPARP3	FWMEISNKWFTLFPTRPYTMKGYEQIADNVASGLETVRDINVASRLIGDVFGLDPL	596
HvPARP3	FWIEISNKWFTLFPTRPYIMRGEFQIADNVASGFETIRDINDASHLIGDAFASTLDDPL	589
AtPARP3	MWADFSSRWFSLMHSTRPMLRHLDVNELADHAASAFETVRDINTASRLIGDMRGDTLDDPL	579
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OsPARP3	SQCYKLGCSINRVVDESSEDYKMIKYLEKTYEPVKVGDVVYSATVERIYAVESSALPSY	656
HvPARP3	SECYKLGCSINVPEDSSEDYKMIKYLEKTYEPVKVDDVVYGVSVDRYIYAVESSAFPSY	649
AtPARP3	SDRYKLGCKISVVDKESSEDYKMYKYLETTYEPVKVSDVEYGVSVQNVFAVESDAIPSL	639
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OsPARP3	DEIKKLPNKVLLWCGTRSSNLLRHLRDLGFPVAVCHIPVPGYMF GKAI VCS DAAAAEAALYG	716
HvPARP3	SEIKKLPNKVLLWCGTRSSNLLRHLRDLGFPVAVCHLPVPGYMF GRAI VCS DAAAAEAARYG	709
AtPARP3	DDIKKLPNKVLLWCGSRSSNLLRHIYKGF LPAVCSLPVPGYMF GRAI VCS DAAAAEAARYG	699
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OsPARP3	FTAVDRPEGYLVLAVASLGKEIQEITGTPGSEDVKRMEEKKMGVKGVGRKTTDPSEHFTW	776
HvPARP3	YTAVDRPEGYLVLAVASLGEEIKEITGTPGAEDVKSLEEKKPGVKGVGRKTTDESEHFTW	769
AtPARP3	FTAVDRPEGFLVLAVASLGEEVTEFTSPP--EDTKTLEDKKIGVKGLGRKKTEESEHFMW	757
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OsPARP3	RDGVTVPCGKLVLPSTNKDGPLEYNEYAVYDPKQVSI AFLVGVK YEEQNMEVVPDE--	831
HvPARP3	RDGVKVP CGKLVPSGNE DGPLEYNEFALYDPKQVSI QFLVGVRYEEQNMEVVPDE--	824
AtPARP3	RDDIKVPCGRLVPSEHKDSPLEYNEYAVYDPKQTSIRFLVEVK YEEKGTEIVDVEPE	814
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