

DOR Human [Homo sapiens] NP_067025
MFQRLSSLFFSTPSPPEPDCPRAFVSEEEVDGWLIIDLPSYAAPSPGGAAPAPAGRP
PPAPSLMDESFWVTPPACFTAEGPGLGPARLQSSPLEDLLIEHPSMSVYVTGSTIVLEPG
SPSPLPDAAALPDGDLSEGETLTPARREPRARHAAPLARAALLEKAGQVRRLLQRARQRAE
RHALSAAVQRQNRARESRPRRSKNQSSFIYQPCQRQFNY

TP53INP1 Human [Homo sapiens] NP_150601
MFQRLNKMVFGEVSSSSNQEPFNEKEDEWILVDFIDTCTGFSAAAAEEEEEDISEESPT
EHPSVFSCLPASLECLADTSDSCFLQFESCPMEESWFITPPPCFTAGGLTTIKVETSPME
NLLIEHPSMSVYAVHNSCPGLSEATRGTDELHSPSSPRVEAQNEMGQHIHCYVAALAAHT
TFLEQPKSFRPSQWIKHESERQPLNRRSLRRQNLTRDCHPRQVKHNGWVVHQPCCRQYNY

DOR Opossum [Monodelphis domestica] XP_001371459
MFQRLTSLFFSTSPPEEPPSPKAFICPEDEEEVDGWLIIDLPSFAAPSPKASPCLL
DESWFVTPPACFTAEGPELGAHLESSPLEDLLIEHPSMSVYVTGSTIVLEPGPGPTLTP
PRSPPPARAGHREVMQPRRDGPRHHTASMPSTRALLEKASQARWVQRRARQADRQLSP
KVVQRQNRVRRERHRRSKHGQSFHLHQPCQRQFNY

TP53INP1 Opossum [Monodelphis domestica] XP_001368955
MFQRLNSMFVGEIKNSSSKEPEFSEKEDDEWILVDFIDTNFSTEVEEEDVSEESPTNHPP
VFSCLPASLECLADTSESCFVQFEACPMEEESWFITPPPCFTAGGLTTIKVETSPLENLLI
EHPSMSVYNSSRNLEAGCETDEFHNPSSPRLEVQNEMGQHVHCYVAALAAHSTFLEQTK
SFRPTQWIKHESERHSLNRRSLRRQNLTRDCHSRQIKHNGWVVHQPCCRQYNY

DOR Lizard [Anolis carolinensis] Genomic profiling
MFQRLTSLFFSDSAPEDLEEPKPFISKEEEEDDWLIIDITGKEDSVASCCHHGLPPT
SSLPLSPSDCISRSMPSQDPCLMDESFWVTPPPCFTAECSDPVSMEENPMEDLLIEHPS
MSVYVTSSTIVVETQTPPEHINRDGEEPERRLQRHAPHHSTSLATKAAILEKVSQVHRIQ
RAKQLAEKHNFQKVMQQRNRTRECRPRRAKHQGSFVYQPSQRQYNY

TP53INP1 Lizard [Anolis carolinensis] Genomic profiling
MFQRLNMMFMEEINNLPSEQEPAFSEKEEEEWIVVDFIDTCNNFSMVEEEDDEEEEEEDN
CNIHETSSVDHPPVFSHLNLSLECLSDASESCFIQFDSCPMEEESWFITPPPCFTAGGLAT
LKVETSPLENLLIEHPSMSVYAVHNTTHSLNKTSCGDEEEEEDEEKENRNATNPQSEA
QSOMGQHIRCYIATLATHSTFLEQTKNLRPSQWTKHHERQYLTRNCLRRQNLTRDCYSR
QLKNNGILLVHQPCQRQYNY

DOR Chicken [Gallus gallus] CN231263, XP_001232258 and
genomic profiling
MFQRLTSLFFSDSAPEDLEEPKPFVSEEEEDGWLIIEELGAHTGSSTPTLPSCLMDES
WFVTPPPCFTAEGEPDGVGSSPMEDLLIEHPSMSVYVTSTLELDAEGPQDDAVGEVPEP
RLERHVPHRASASLVKAAVLEKVSQARRVQRAKQLAEKPWLSQKALQRQDRARQPPRA
RQRAGSFLHQPCQRHCNY

TP53INP1 Chicken [Gallus gallus] NP_001026117
MFQRLNMMFMGEIDGLSSQEPFSEKEDDEWILVDFIADTCTNCTEQDDIAETSPAGSS
PVFTCLPSPLEHLPEAGESCFIQFESCPMEESWFITPPPCFTAGGLTAIKVETSPMENLL
IEHPSMSVYAVHNACHSLSDTGCDEEFCGPGSPREARNETGQRVHCFVAALPTRSSVL
EKNKSRFRPTHWIKHEGERHYPSRNLRRQNLTRDCHSRHIKHNGLHVHQPCQRQFNY

DOR Frog [Xenopus tropicalis] multiple ESTs short and long
MFQRLTRLFFSDVPSNTNEPKPIISEEEDGWLIIDIPESYDLNSSGDEVAQEEDDAT
PSPLPHSLADRIGWTP53INP1PHPPQSMDESFWVTPPPCFTAEGPQDELGTSPLEDLL
IEHPSMSVYITNGSIVVEEDTREAPRDRSPSKTRVERRTPHHATSMASAKAAILGKVGQAS
RIQRAKAHVDRRKISRKSLQRQNLAREIQGRSMTRHRSFLCQPRQRQYNY

TP53INP1 Frog [Xenopus tropicalis] ensemble
ENSXETP0000014600 and ESTs
MFQMLNMMFARECSNALSQETKLEKEDEWILVDFIAQVDPGSRVSEEAATFEVISHSD
ETSVLPHVSNTFERLGTTSDFIHFNLCPMEESWFVTPPPCFTAGELTSMVKTSPMEN
LLIEHPSMSVYAVHNMCHKPETSCEGFPSPDRTELATENKKKGKHIHCSIAALAARMKG
LENTKIYLGDKLTKLHLEKHPSRKGFRRQNLIRGCRSQTKHSRLLVHQPSRQYNY

DOR Medaca [*Oryzias latipes*] BJ721597 genomic profiling
MFQRLSNLLFGEVEEVAELKGNPCLTEADEEGWMLVNLDPGSECGNGGRSREGSER
GCMDESWFVTPPPCFTAEGATAEASPMEDLLIEHPSMSVYVSPNNTSMVSTSDLVSVGEE
CILSLASSVSRVSEPGVIPAARSTMPTRVTRGGAAHPGALAKVTQVARVQRCKARIDRR
HLSRNHIQRQNRTRREQVPCAAHARNTFLHQPSKRNFC

TP53INP1 Medaca [*Oryzias latipes*] genomic profiling and ESTS
(AM335308;AM316165; AM322529; AM306335)
MFQVFASALFRDGVVEELSQCSPGDDKREEEDEDEDWILVNYLTDACSGDCGDLRSRML
SPEDEDEEEDLVMIPIASPAIRYPSCTSLNSVADTDPDGGVDEDEYVDDEEGGFLRLD
ACSLSESWFVTPPPCFTGRGSQPVLLETSPLENLLIEHPSMSVYAHHSPPRLMLNPLPQH
SLEGLKDLFLSSGSPDRKPSRGKEKVRCSIEGSRHRQDVAAAQRPNLHSPCYAATLSPNA
GFLQQQRRPGSAAQRSQPLSRKGLRRRNLRLRPKGTMTMLQQPIQRHLNF

DOR Elephant fish [*Callorhinchus milii*] genomic profiling
MFHRFTSLFYGGSENTCIEGPDPSLTEKEDDGWLVDFPVEVKASTCVSPHLPDDHLPL
ASSLSLESLCHCGISSRPPRSKACTLEESWFVTPPPCFTAEGQEPGEVEISPLENLLIEHP
SMSVYAGSNTNISTMEDEPSEVPSSRSARQPRAERLTAPSPAAGIQSSLVEKVSQVRR
LQRAKQRMERHQLSRNRIQRQNLTRCRLHRTKHHGSFVYQPRQRHCNY

TP53INP1 Elephant fish [*Callorhinchus milii*] genomic
profiling
MYQRFSSMLFGEIDGAERESQELEISEKEDEEWLVLDYIDGMDRATSPNSAMFSSSTSSL
ELGNSSDPFCFLQLDSCALEESWFITPPPCFTAGGQAPVQVEMSPMENLLIEHPSMSVYT
VNIHSSLRENSRVIPIVQYVPRRVSAFRIRDSVLEHTNHIHFMQCAKLYVERKRLSCNH
LRRQNRARKRYFAKEKHFHFKQPCQRNHKY

DOR Sea squirt [*Ciona intestinalis*] XP_002130814
MLNTIAYWAGFGSNDTPVDDNLSFITKETGDWTLVDLENQNDQAQSNYTPPPSPRIEHS
WLITPPPCFTAESMHVVGALNARENLLIEHPSMFVKPAEPSEEPKNTESRSVQRHKGAP
TSLRRSHRRASRQASCVISQMHRSNQIKRDVARSNKAMQMRQIVHQPRKRC

DOR Lancelet [*Branchiostoma floridae*] CF918976; BW697867;
CF9189763; BW698074;
MFSAVTNLLFGASEEVEGACDLRTSTLDDDWLVVELPAGMNIQQMEKETEALQSRPGDRP
STSSSPVPIPENHPVEESWFVTPPPCFTAGGQSPVAMETNPMENLLIEHPSMSVYVQQR
SRNSSGETTESDSSGQHQQRRDQVHRPPQRAAAIAARVIVEQAKMKRHAQRVQERHE
KKANSKTNLQRANLTSRPIRASRHNRRNGLMCKQPQGRVNGKRC

DOR Sea urchin [*Strongylocentrotus purpuratus*] XP_001177555
NCBI predicted plus genomic profiling and multiple ESTs
MLSGLSLDYLFSSNNQAGDAMVTDTPQQRDTPVKDPVKEIEMDGDWLVLDVTDNSGSPS
PLRSPTSPSKDGFQSQPVPEKPHRMEESWFITPPPCFTAGGHSPLQLATSPLEDLLI
EHPSMSVYHHPQRGAPMAHRRQHLPRQKSSRTVPKRTHNLRLVNLAKPPRRAAAIAARV
IEQSANQVGLQEQRDTRKHQQRQYSPGKIERHNKAYHHQSASSRRHYKQNSSISGRHSGA
LYKQPR

DOR Fly *Drosophila melanogaster*] NP_728991
MLSSLASYLFGSATSISQEANPAQNRTNASNANSSSSPGPTSDPAAGDVIEVTSSTPS
VAGSSRGAVRASNGKRGKNRGKQRTNQQQRKQPAITKLLTPSGEIVDEDFDEDEWYI
VEKEDEEDDSLPRSDSEELSVVEVSQPRGGSNNASSPMVTATGTAFNCRRRQGVNSCS
LYSGPRPQQRNYLQRSRVSRPLSISTLSPPRSVPALGAGDHTLTQSLYVASPSGSDQG
QDHGQGANVLMEEESWYVTPPPCFTSIGPINMETSPPFENLLIEHPSMSVYHSIRSTQEGTD
SFVNLDLGVSTEVPPQREPEPEAEPPDQRQALQEQQRAPNARFDSHAAVQLKQQTARQ
SQKSKNKKEHQQLCRSAIKRANKVRDFQAKANRPRRSEMQHCKLVSGANNRNRKCCY

DOR Sea slug [*Aplysia californica*] genomic profiling
MFNSVAKYLWGDANEVEQGYMEVSGQADTAGEQLDLAIHQDDDDWLVVGGQPASDIELE
AASLRCSYNPLTGCSDSVQALQDCTMNLNFDLDSNYSSDGESEGGDGGVSPSPESVFS
VCSGRSHATYRPSGSSHDPWIVAPPPCFTGSGLGELPTISSPLENLLIEHPSMSVYLSV
PPSSLPPSHPFHLAHLAGESAPASSEPRDSDGEGDGDALREDRTHQLPVGEQLPAAHR
AHREGLGRHWGFAAPAQVSPAQAVARLHAAQRVQSGKSNKAVSRQCRRENKVYKGC
KGNTKRKRSRPSSCKSGRMCQRV

DOR Capitella [Capitella sp] EY564360 and genomic profiling
MLSGISSYLFGASSAAEDNLPQPTVDPPEVQDDLERLMTREGEWVLDKAA**R**SPPRSP
RCFRGSDADVTPNGSSGHSTPVHILHPSLCESWLVTTPSCFT**A**AGSARSDPLENLLIEHP
SMSVYSLGQRGGRSAGEESEESDVEEEAVRSQRLQASRPHPLAINTAIASRKVTQRSM
QKAVKKHEQQLARNVMQRNNRVQKHNNSCRPRRSEMMQPSGRSNNRSMHL

DOR Sea anemone [Nematostella vectensis] XP_001623518
MFSSLSYIWGQTDQVVPDCPLDVEDSRTEEGWIMVDLGSVVNP**K**DVKKHEKAENAVPD
SVEESWVYTPPSCF**S**RDNFSGVLESNPEDLLIEHPMSVYGPRRSADASAGPSSRSAS
QAAEENQELEKKPPRRTVQFQEKLELIAQKRKVEAPQHGTIRPNKKNIKKQNLVQFQHSR
TRRTKKRDRMVGKHIGVHGKRG

DOR Trichoplax [Trichoplax adherens] genomic profiling
MLWQSLSSYLWDQSTEDASNHRVNVSLTEEDDWILVVKEN**K**DLEEVSNEDQLVKNRKE
KESGWLLTPPPCFDGHVME**E**LSVSPFEDLLIEHPMSIYRRIDSSASIRNNLDHDFAAASL
ANSGDNNTHEQSRSR**S**IELYMDRELNKKSDRFNYIRKARDLNVKRSLTFKANSRS
YSNSWSRRHCFTNFSYRR

DOR Sponge [Ephydatia muelleri] AM760558
NLIWGYPAAESREEPTDHITVEAEDWLLVQRSDKAQVCEGGSAPLDHGSQVTSDNESVCS
DASWVVPAPRFRDSPETTNAGHPLENLLIEHPAMSVYQIQVGSQIVPTADVQLVTTV
SEQAGQAPNRQRQVALHMDVPPKMPIAATQRVQFKHPKLSRASITRHNATVTKTRVPRM
RTRMSNSKKAGRRGC

DOR Rainbow trout [Oncorhynchus mykiss] CA358690
MFQALSSLFFGEVEEVAEIKGNPCVTDADDEGWMLVNLPEGATAETSPMEDLLIEHP
SMSVYVSPSNLSMISNGNLSIVGEESITSLTGSMRVAEPAATS AVHNTMPTRVTRGAA
AQAGTLAKVTQVARVQRGKARTERRHLGRNR IQRQNRTRQVPRHAAHARNTYLHQPCQ
RNICH

DOR Salmon [Salmo salar] BG935547
MIGKIFAHFLGSTDDDFPTDDNETYEELIEFEEGGWVVINIQENNSLTPPEEDPLENLL
IEHPMSVYQIRHQTSDEVDADEEDASPRVPVKQHVSWRLAAWGSPLPCNVQLLAIQR
ARTHMECKELTRSALQRQNLAKVRFSPSDRRFGHFQPCQRLYNY