

MAGE SEQUENCES

>sp|P43355|MAGA1_HUMAN Melanoma-associated antigen 1 OS=Homo sapiens GN=MAGEA1 PE=1 SV=1
MSLEQRSLHCKPEEALAEALGLVCVQAATSSSSPLVLGTLEEVPATAGSTDPQSPQGASAFPTTINFTRR
QPSEGGSSREEEGPSTSCILESLFRAVITKKVADLVGFLLLKYRAREPVTKAEMLESVIKNYKHCPEIFGKAS
ESLQLVFGIDVKEADPTGHSYVLVTCLGLSYDGLLDGNQIMPKTGFLIIVLVMIAMEGGHAPEEEIWEELSV
MEVYDGREHSAYGEPKLLTQDLVQEKYLEYRQVPDSDPARYEFLWGPRALAETSYVKVLEYVIKVSARR
FFFPSLREAAALREEEEGV

>sp|P43356|MAGA2_HUMAN Melanoma-associated antigen 2 OS=Homo sapiens GN=MAGEA2 PE=1 SV=1
MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPHSPQGASSFS
TTINYTLWRQSDEGSSNQEEEGPRMFPDLESEFQA AISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNC
QDFFPVIFSKASEYLQLVFGIEVVEVPISHLYILVTCLGLSYDGLLDGNQVMPKTGLLIIVLAIIEGDCAPE
EKIWEELSMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLH
HTLKIGGEPHISYPPLHERALREGEE

>sp|P43357|MAGA3_HUMAN Melanoma-associated antigen 3 OS=Homo sapiens GN=MAGEA3 PE=1 SV=1
MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESDPQSPQGASSLP
TTMNYPLWSQSYEDSSNQEEEGPSTFPDLESEFQA ALSRKAELVHFLLLKYRAREPVTKAEMLGSVVG
WQYFFPVIFSKASSLQLVFGIELMEVDPIGHL YIFATCLGLSYDGLLDGNQIMPKAGLLIIVLAIAREGDCA
PEEKIWEELSVLEVFEGREDSILGDPKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRALVETSYVKVL
HHMVKISGGPHISYPPLHEWVLRREGEE

>sp|P43358|MAGA4_HUMAN Melanoma-associated antigen 4 OS=Homo sapiens GN=MAGEA4 PE=1 SV=2
MSSEQKSQHCKPEEGVEAQEEALGLVGAQAPTTEEQA AVSSSSPLVPGTLEEVPAAESAGPPQSPQGASA
LPTTISFTCWRQPNEGSSSQEEEGPSTSPDAESLFREALSNK VDELAHFLLRKYRAKELVTKAEMLERVIK
YKRCFPVIFGKASESLKMIFGIDVKEVDPASNTYTLVTCLGLSYDGLLDGNNQIFPKTGLLIIVLGTIAMEGDS
ASEEEIWEELGVMGVYDGREHTVYGEPRKLLTQDWVQENYLEYRQVPGSNPARYEFLWGPRALAETSYV
KVLHVVRVNRVRIAYPSLREAAALREEEEGV

>sp|P43359|MAGA5_HUMAN Melanoma-associated antigen 5 OS=Homo sapiens GN=MAGEA5 PE=2 SV=1
MSLEQKSQHCKPEEGLDTQEEALGLVGVQAATTEEQA VSSSSPLVPGTLEEVPAAAGSPGPLKSPQGASAI
TAIDFTLWRQSIKSSNQEEEGPSTSPDPESVFRAALS KKVADLIHFLLLKY

>sp|P43360|MAGA6_HUMAN Melanoma-associated antigen 6 OS=Homo sapiens GN=MAGEA6 PE=1 SV=1
MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTLGEVPAAESDPQSPQGASSLP
TTMNYPLWSQSYEDSSNQEEEGPSTFPDLESEFQA ALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVG
WQYFFPVIFSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDGNQIMPKTGFLIILAIIAKEGDCA
PEEKIWEELSVLEVFEGREDSIFGDPKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLH
HMKISGGPRISYPLLHEWALREGEE

>sp|P43361|MAGA8_HUMAN Melanoma-associated antigen 8 OS=Homo sapiens GN=MAGEA8 PE=2 SV=2
MLLGQKSQRYKAEEGLQAQGEAPGLMDVQIPTAEQKAASSSSTLIMGTLEEVTDSGSPSPQSPGASSSL
TVTDSTLWSQSDGSSSNEEGPSTSPDPAHLESLFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIK
NYKNHFPDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLDGDDQSTPKTGLLIIVLGMILMEGS
RAPEEAIWEALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSY
VKVLEHVVRVNRVRSYPSLHHEALGEEKGV

>sp|P43362|MAGA9_HUMAN Melanoma-associated antigen 9 OS=Homo sapiens GN=MAGEA9 PE=2 SV=1
MSLEQRSPHCKPDLEDLEAQGEDLGLMGAQEPTGEEETTSSSDSKEEEVSAAGSSSPQSPQGASSISVY
YTLWSQFDEGSSSQEEEEPSSSDPAQLEFMFQEA LKLVKVAELVHFLHLYRKEPVTKAEMLESVIKNYK
RYFPVIFGKASEFMQVIFGTDVKEVDPAGHSYILVTALGLSCDSMLGDGHSMPKAALLIIVLGVILTKDNCA
PEEVIWEALSVMGVYVYVKEHMFYGEPRKLLTQDWVQENYLEYRQVPGSDPAHYEFLWGSKAHAETSYEK
VINYLVM LNAREPICYPSLYEEVLGEEQEGV

>sp|P43363|MAGAA_HUMAN Melanoma-associated antigen 10 OS=Homo sapiens GN=MAGEA10 PE=2
MPRAPKRQRCMPEEDLQSQSETQGLEGAQAPLAVEEDASSSTSTSSSFSSPSSSSSSSSCYPLIPSTPEEVS
ADDETPNPPQSAQIACSSPSVVASLPLDQSDGSSSQKEESPSTLQVLPDSESLPRSEIDEKVTDLVQFLLFKY
QMKEPITKAEILES VIRNYEDHFPLLFSEASECMLLVFGIDVKEVDPTGHSFVLTSLGLTYDGM LSDVQSM
PKTGILILSIVFIEGYCTPEEVIWEALNMMGLYDGMEHLIYGEPRKLLTQDWVQENYLEYRQVPGSDPAR
YEFLWGPRAHAEIRKMSLLKFLAKVNGSDPRSFPLWYEEALKDEEERAQDRIATTDDTTAMASASSSATGS
FSYPE

>sp|P43364|MAGAB_HUMAN Melanoma-associated antigen 11 OS=Homo sapiens GN=MAGEA11 PE=1

METQFRRGGLGCSPASIKRKKKREDSGDFGLQVSTMFSEDDFQSTERAPYGPQLQWSQDLPRVQVFREQA
NLEDSPRRTQRITGGEQVLWGPITQIFPTVRPADLTRVIMPLEQRSQHCKPEEGLQAQEEDLGLVGAQALQ
AEEQEAFFSSTLNVGTLEELPAAESPPQSPQEEFSPTAMDAIFGSLSDGSGSQEKEGPSTSPDLIDPESEF
SQDILHDKIIDLVHLLLRKYRVKGLITKAEMLGSVIKNYEDYFPEIFREASVCMQLLFGIDVKEVDPTSHSYV
LVTSLNLSYDGIQCNEQSMPSGLLIIVLGVIFMEGNCIPEEVMWEVLSIMGVYAGREHFLFGEPRKLLT
QNWWQEKYLVYRQVPGTDPACYEFLWGPRAHAETSKMKVLEYIANANGRDPTSYPPLYEDALREEGEGV
>sp|P43365|MAGAC_HUMAN Melanoma-associated antigen 12 OS=Homo sapiens GN=MAGEA12 PE=2
MPLEQRSQHCKPEEGLQAQEALGLVGAQAPATEEQETASSSSTLVEVTLREVPAAESPPHSPQGASTLP
TTINYTLWSQSDEGSSNEEQEGPSTFPDLETSFQVALSRKMAELVHFLLLKYRAREPFTKAEMLGSVIRNFQ
DFFPVIKASEYLQLVFGIEVVEVVRIGHLYILVTCGLSYDGLLDGNQIVPKTGLLIIVLAIIAKEGDCAPEE
KIWEELSVLEASDGREDSVFAHPRKLLTQDLVQENYLEYRQVPGSDPACYEFLWGPRAHVETSIVKVLHH
LLKISGGPHISYPLHEWAFREGEE

>sp|P43366|MAGB1_HUMAN Melanoma-associated antigen B1 OS=Homo sapiens GN=MAGEB1 PE=1
MPRGQKSKLRAREKRRKAREETQGLKVAHATAAEKEECPSSSPVLGDTPTSSPAAGIPQKQAPPTTAA
AAVSTCESDEGAKCQGEENASFSQATTSTESSVKDPVAWEAGMLMHFILRKYKMPREPIKADMLKVVDE
KAYDHFTEILNGASRRLELVFGLDLKEDNPSGHTYTLVSKLNLTDGNLSNDWDFPRNGLLMPLLGVIFLK
GNSATEEEIWKFMNVLGAYDGEELIYGEPRKFITQDLVQEKYLYEYQVNSDPPRYQFLWGPRAAET
KMKVLEFLAKMNGATPRDFPSHYEEALRDEEERAQVRSSVRARRRTTATFRARSRAPFSRSSHPM

>sp|O15479|MAGB2_HUMAN Melanoma-associated antigen B2 OS=Homo sapiens GN=MAGEB2 PE=1
MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAESEAPCCSSSVSGGAASSSPAAGIPQEPQAPPTTAA
AAAGVSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVG
KRFREHFPEILKASEGLSVVFGLELNKVNPNNGHTYTFIDKVDLTDEESLLSSWDFPRKLLMPLLVIFLN
GNSATEEEIWEFLNMLGVYDGEHVSFGEPPWKLITKDLVQEKYLEYKQVPSDPPRFQFLWGPRAAETS
MKVLEFLAKVNGTTPCAFPTHYEEALKDEEKAGV

>sp|O15480|MAGB3_HUMAN Melanoma-associated antigen B3 OS=Homo sapiens GN=MAGEB3 PE=2
MPRGQKSTLHAREKRQQRGQTQDHQGAQITATNKKKVSFSSPLILGATIQQKSAGRSRSALKKQRALST
TTSVDVSYKKSYPKANSKIEKKQSFSQGLSSTVQSRTDPLIMKTNMLVQFLMEMYKMKKPKADMLKIV
QKSHKNCFPKILKASFNMEVVFVGVLDLKKVDSTKDSYVLVSKMDLPNNGTVTRGRGFPKTGLLLNLLGVI
FMKGNCATEEKIWEFLNKMRIYDGKKHFIFGEPKLLITQDLVQEKYLEYRQVNSNPARYEFLWGPRAHA
ETSKMKVLEFWAKVNTVPSAFQFWYEEALRDEEERVQAAAMLNDGSSAMGRKCSKAKASSSSHA

>sp|O15481|MAGB4_HUMAN Melanoma-associated antigen B4 OS=Homo sapiens GN=MAGEB4 PE=1
MPRGQKSKLRAREKRQRTRGQTQDLKVGQPTAAEKEESPSSSSSVLRDTASSSLAFGIPQEPQREPPTTAA
AAMSCTGSDKGDESQDEENASSSQASTSTERSLKDLSLTKMLVQFLLYKYKMKKEPTTKAEMLKIISSKY
KEHFPEIFRQVSRTELVFGLALKEVNPTTHSYILVSMLGPNNDGNQSSAWTLPRNGLLMPLLSVIFLNGNCA
REEEIWEFLNMLGIYDGKRHLIFGEPKLLITQDLVQEKYLEYQVNSDPPRYQFLWGPRAHAETSKMKVL
EFLAKVNDTTPNPFLLYEEALRDEEERAGARPRVAARRGTTAMTSAYSRSATSSSSSQPM

>sp|Q9BZ81|MAGB5_HUMAN Melanoma-associated antigen B5 OS=Homo sapiens GN=MAGEB5 PE=2
MTSAGVFNAGSDERANSRDEEYPCSEVSPSTESSCSNFINIKVGLLEQFLLYKFKMKQRILKEDMLKIVNP
RYQNQFAEIHRRASEHIEVVFVAVDLKEVNPTCHLYDLVSKLKLPNNGRIHVGVLPKTGLLMTFLVIFLK
GNCANKEDTWKFLDMMQIYDGKKYYIYGEPRKLITQDFVRLTYLEYHQVPCSYPAHYQFLWGPRAAET
SKMKVLEYLAKVNDIAPGAFSSQYEEALQDEEESPSQRCSRNVWHYCSGQDCLRAKFSFSQPY

>sp|Q8N7X4|MAGB6_HUMAN Melanoma-associated antigen B6 OS=Homo sapiens GN=MAGEB6 PE=2
MPRGHKSCLRTCEKRQETNGQPQGLTGQATAEKQEESHSSSSSRACLGDCRRSSDASIPQESQGVSPGTS
PDAVVSYSKSDVAANGQDEKSPSTSRDASVPQESQASPTGSPDAGVSGSKYDVAANGQDEKSPSTSHDV
SVPQESQASPTGSPDAGVSGSKYDVAEAGEDEESVSASQKAIIFKRLSKDAVKKKACTLAQFLQKKFEKK
ESILKADMLKCVRREYKPYFPQILNRTSQHLVAVFGVELKEMDSSGESYTLVSKLGLPSEGILSGDNALPKS
GLLMSLLVIFMNGNCAATEEEVWEFLGLLGIYDGLHSIYGDARKIITEDLVQDKYVVYRQVCNSDPPCYEF
LWGPRAAETTKMRVLRVLADSSNTSPGLYPHLYEDALIDEVERALRLRA

>sp|Q96LZ2|MAGBA_HUMAN Melanoma-associated antigen B10 OS=Homo sapiens GN=MAGEB10 PE=2
MPRGQKSKLRAREKRRQARGGLEDLIDALDILEEEEEESPASACLKDFVQSSLDGASNNPHGLREAQSTST
SATAASHTRHPEGVNDQMEERPICTQDLEATDSFPRGPVDEKVIILVHYLLYKYQMKEPITKADMLRNVTQ
MSKSKFPVILSRASEHLELIFGLDLKEVEPNKHIVLVNKLKDLGCDAKLSDETGVPKTGLLMTVLGHIFTNG
NCVAEEEEVWVFNMTMGLYDGIHFHMFGEPRKLLTKDLVKENYLEYQVNSDPPRYQFLWGPRAHAETS
KMKVLEFLAKVNDTAPSEFSNWTALQDEEERARARVAAKARVSATAGARSKVKSSKSSQLQ

>sp|A2A368|MAGBG_HUMAN Melanoma-associated antigen B16 OS=Homo sapiens GN=MAGEB16 PE=4
MSQDQESPRCTHDQHLQTFSETQSLEVAQVSKALEKTLSSSHPLVPGKLKEAPAAKAESPLEVPOFCSSSI
AVTTTSSSESDEASSNQEEEDSPSSSEDTSDPRNVPADALDQKVAFLVNFMLHKCQMKKPITKADMLKHIK
DDESHFSEILLRASEHLEMIFGLDVVEVDPTTHCYGLFIKLGTYDGMLSGEKGVPKTGLLIIVLVGVIKMGK
RATEEEVWEVLNLTGVYSGKKHFIFGEPRLITKDFVKEKYLEYQQVANSDPARYEFLWGPRAKAETSKM
KVLEFVAKVHGSYPHSPFSQYAEALKEEEERARARI

>sp|A8MXT2|MAGBH_HUMAN Melanoma-associated antigen B17 OS=Homo sapiens GN=MAGEB17
MKHAGECHGQGAILCKVCGRKTVKEIAGIWHFPGSLELMRQEPRCEAPCRRTEDTUIPEYWRNRDQPVA
ALRLRGPQAGLRSLISTIILQGSQEHERFQEDKLRCPAPSCLLPLSTVIMPRGQASKRRAREKRRQARGED
QCLGGAQATAAEKEKLPSSSSPACQSPQSFNAGIPQESQRASYSSPASAVSLTSSDEGAKGQKGESPNF
HGPSSSESTGRDLLNKTGELVQFLLNKYIRKEPITREAMLKVINRKYKQHFPEILRRSTENVEVFLGLYKE
MDPSRQSYVLVGLDFPNQGSLSGGGFPPLSGLLMVLLSTIFMHGNRATEEEMWECLNALGMYKGRKHFI
YGEPQELVTKDLVREGYLEYQQVPSDDPPRYEFLWGPRAARAETSKMKVLEFVAKLNDTVASTYKSRYEEL
LREEEEQARARAVARDSARARASRSFQP

>sp|Q96M61|MAGBI_HUMAN Melanoma-associated antigen B18 OS=Homo sapiens GN=MAGEB18 PE=1
MPRGQKSKLRAREKRHQARCENQDLGATQATVAEGESPPAYLLFGDRPQNLPAETPSIPEALQGAPSTT
NAIAPVSCSSNEGASSQDEKSLGSSREAEGWKEDPLNKKVSLVHFLQKQYETKEPITKGMKIFVIRKDKC
HFNEILKRAHEMELALGVLDKEVDPIRHYYAFFSKLDLTYDETTSDEEKIPKTGLLMIALGVIFLNGNRAP
EEAVWEIMNMMGVYADRKHFLYGDPRKVMTKDLVQLKYLEYQQVNSDPPRYEFLWGPRAHAETSKM
KVLEFVAKIHDTVPSAFPSCYEEALRDEEQRTQARAAARAHTAAMANARSRTTSSSFHAK

>sp|O60732|MAGC1_HUMAN Melanoma-associated antigen C1 OS=Homo sapiens GN=MAGEC1 PE=1
MGDKDMPTAGMPSLLQSSSESPQSCPEGEDSQSPLQIPQSSPESDDTLTYPLQSPQSRSEGEDSSDPLQRPPEG
KDSQSPQIPQSSPEGDDTQSPQNSQSSPEGKDSLPLEISQSPPEGEDVQSPQNPASSFFSSALLSIFQSSPE
STQSPFEGFPQSVLQIPVSAASSSTLVIFQSSPESTQSPFEGFPQSPQIPVSRFSSTLLSIFQSSPERTQSTFEG
FAQSPQIPVSPSSSTLLSLFQSFERTQSTFEGFAQSSQIPVSPFSSTLVSLFQSSPERTQSTFEGFPQSPQIP
PVSSSSSTLLSLFQSSPERTHSTFEGFPQSLQIPMTSSFSSTLLSIFQSSPESAQSTFEGFPQSPQIPGSPFSS
TLLSLFQSSPERTHSTFEGFPQSPQIPMTSSFSSTLLSILQSSPESAQSAFEGFPQSPQIPVSSFSYTLSSLFQS
SPERTHSTFEGFPQSPQIPVSSSSSTLLSLFQSSPECTQSTFEGFPQSPQIPQSPPEGENTHSPLQIVPSLPE
WEDSLSPHYFPQSPQGEDSLSPHYFPQSPQGEDSLSPHYFPQSPQGEDSLSPHYFPQSPQGEDSMSPLYFP
QSPQGEFQSSQSPVSISSSTPSSLPQSFPESSQSPPEGPVQSPQSPPEGMHSQSPQSPESAPEGEDS
LSPLQIPQSPLEGEDSLSSLHFPQSPPEWEDSLSPLHFPQFPQGEDFQSSQSPVSISSSTLSLQSPFPESSQSP
PPEGPAQSPQSPVSSFFSYTLASLLQSSHESQSPPEGPAQSPQSPVSSFPSSSTSSLSQSSPVSSFPSSSTSSSL
SKSSPESPLQSPVISFSSSTLSLSPFSESSSPVDEYTSSSDTLLESDSLTDSESLIESEPLFTYTLDEKVDLARFL
LLKYQVKQPITKAEMLTNVISRYTGYFPVIFRKAREFIEILFGISLREVDPPDSYVFNLTDLTSEGCLSDDEQ
MSQNRLILILSIFIKGTYASEEVIWDVLSGIGVRAGREHFAFGPRELLTKVWVQEHYLEYREVPNSSPPR
YEFLWGPRAHSEVIKRVVEFLAMLKNTVPITFPSSYKDALKDVEERAQAIIDTTDDSTATESASSVMSPFS
SSE

>sp|Q9UBF1|MAGC2_HUMAN Melanoma-associated antigen C2 OS=Homo sapiens GN=MAGEC2 PE=1
MPPVPGVFRNVNDNDSPSVELEDWVDAQHPTDEEEEEEASSSTLYLVFSPSSFTSSSLILGGPEEEVPS
GVIPNLTESIPSPPPQPPQGPSQSPSSCCSSFSWSSFESESSQKGEDTGTCQGLPDSSESSFTYTLDEKVAEL
VEFLLLKYEAEEPVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDPHFCVFANTVGLTDEGSD
DEGMPENSLIILSVIFIKGNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVPHS
SPPYEFLWGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWKDALKDVEERVQATIDTADDATVMASESLS
VMSSNVSFSE

>sp|Q8TD91|MAGC3_HUMAN Melanoma-associated antigen C3 OS=Homo sapiens GN=MAGEC3 PE=1
MLLPCHWVLDATFSDGSLGQWVKNTCATYALSPVLPQPQPRKKATDKDYSAFHLGHLREVRFLRGG
TSDQRMDSLVLCPTYFKLWRTLSGSPGLQLSDLHFGSQPEGKFSRRRAVSVKQREEPQDWPLNEKRTLWK
DSDLPTWRRGTGYTLSPA VSPGKRLWGEKAGSLPESEPLFTYTLDEKVDKLVQFLLLYQAKEPLTRAE
MQMNVINTYTYGFPVIFRKAREFIEILFGISLREVDPPHFYVFNLTDLTCEGSLSDDEQGMQNRLLILILSVI
FIKGNCASEEVIWEVLNAIGPWSALAGFADVLSRLALWESEGPEAFCEESGLRSAEGSVLDLANPQGLAGH
RQEDGRRGLTEASPPQKKGGEDEDMPAAGMPPLPQSPPEIPPQPPKISPQPPQSPQSPPLDSCSSPLLWTR
LDEESSSEEDTATWHALPESESLPRYALDEKVAELVQFLLLYQTKEPVTKAEMLTTVIKKYKDYFPMIF
GKAHEFIELIFGIALTDMDPDNHSYFFEDTLDLTYEGSLIDDQGMKNCLLILILSMIFIKGSCVPEEVIWEVL
SAIGPIQRPAREVLEFLSKLSSIPSAPPSWYMDALKDMEDRAQAIIDTTDDATAMASASPSVMSTNFCPE
LAMLKNTVPITFPSSYKDA

