

SEQUENCE LISTING

SEQ ID NO:1 HBC

MDIDPYKEFG	ATVELLSFLP	SDFFPSSVRDL	LDITASALYRE	ALESPEHCSP	HHTALRQAIL	60
CWGELMTLAT	WVGNNLEDEA	SRDLVVNYVN	TNMGLKIRQL	LWFHISCLTF	GRETVLEYLV	120
SFGVWIRTPP	AYRPPNAPIL	STLPETTIVR	RRDRCSRPRR	RTPSPRRRRS	QSPRRRRRSQS	180
RESQC						185

SEQ ID NO:2 HBC mutant

MDIDPYKEFG	ATVELLSFLP	SDFFPSSVRDL	LDTAAALYRD	ALESPEHCSP	HHTALRQAIL	60
CWGDIMTLAT	WVGNNLEDEG	KGGSRLVVS	YVNTNVGLKF	RQLLWFHISC	LTFGRETIVLE	120
YLVSEGVWIR	TPPAYRPPNA	PILSTLPETT	VVRRDRGRS	PRRRTSPRRR	RRSQSPRRRR	180
SQSRESQC						188

SEQ ID NO:3 Qbeta CP

AKLETVTLGN	IGKDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALCKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQAYA	DVTFSFTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:4 Qbeta A1

MAKLETVTLG	NIGKDGKQTL	VLNPRGVNPT	NGVASLSQAG	AVPALEKRV	VSVSQPSRNR	60
KNYKVQVKIQ	NPTACTANGS	CDPSVTRQAY	ADVTFSTQY	STDEERAFVR	TELAALLASP	120
LLIDAIDQLN	PAYWTLIIAG	GGSGSKPDV	IPDPIDPPP	GTGKYTCPFA	IWSLEEVYEP	180
PTKNRPWPIY	NAVELQPREF	DVALKDLLGN	TKWRDWDSSL	SYTTFRCGRG	NGYIDLDTY	240
LATDQAMRDQ	KYDIREGKKP	GAFGNIERFI	YLKSIINAYCS	LSDIAAYHAD	GVIVGFWRDP	300
SSGGAIPFDF	TKFDKTKCFI	QAVIVVPRA				329

SEQ ID NO:5 R17

ASNFTQFVLV	NDGGTGNVTV	APSNFANGVA	EWISSNSRSQ	AYKVTCSVRQ	SSAQNRKYTI	60
KVEVPKVATQ	TVGGVELPVA	AWRSYLMEL	TIPIFATNSD	CELIVKAMQG	LLKDGNIPIPS	120
ATAANSIGIY						129

SEQ ID NO:6 fr

MASNFEFVLV	VDNGGTGDKV	VAPSNFANGV	AEWISSNSRS	QAYKVTCSVR	QSSANNRKYT	60
VKVEVPKVAT	QVGGVELPV	AAWRSYMNME	LTIPVFATND	DCALIVKALQ	GTFTKGNPIA	120
TAIAANSIGIY						130

SEQ ID NO:7 GA

MATLRSFVLV	DNGGTGNVTV	VPVSNANGVA	EWSNNSRSQ	AYRVTASYRA	SGADKRKYAI	60
KLEVPKIVTQ	VVNGVELPGS	AWKAYASIDL	TIPIFAATDD	VTVISKSLAG	LFKVGNIPIAE	120
AISSQSGFYA						130

SEQ ID NO:8 SP

MAKLNQVTL	KIGKNGDQTL	TLTPRGVNPT	NGVASLSEAG	AVPALEKRV	VSVAQPSRNR	60
KNFKVQIKLQ	NPTACTRDAC	DPSVTRSAFA	DVTLSTSYTS	TDEERALIRT	ELAALLADPL	120
IVDAIDNLNP	AY					132

SEQ ID NO:9 SP A1

AKLNQVTL	SKIGKNGDQTL	LTTPRGVNPTN	GVASLSEAGA	VPALCKRVTV	SVAQPSRNRK	60
NFKVQIKLQ	NPTACTRDACD	PSVTRSAFAD	VTLSFTSYST	DEERALIRTE	LAALLADPLI	120
VDAIDNLNPA	YWAALLVASS	GGGDNPSDPD	VPVVPDVKPP	DGTGRYKCPF	ACYRLGSIYE	180
VGKEGSPDIY	ERGDEVSVTF	DYALEDFLGN	TNWRNWDQRL	SDYDIANRRR	CRNGYIDL	240
ATAMQSDDFV	LSGRYGVKRV	KFPGAFGSIK	YLLNIQGDW	LDLSEVTAYR	SYGMVIGFWT	300
DSKSPQLPTD	FTQNSANCP	VQTVIIPIS				329

SEQ ID NO:10 MS2

MASNFTQFVL	VDNGGTGDKV	VAPSNFANGV	AEWISSNSRS	QAYKVTCSVR	QSSAQNRKYT	60
IKVEVPKVAT	QTVGGVELPV	AAWRSYLNME	LTIPVFATNS	DCELIVKAMQ	GLLKDGNIPI	120
SAIAANSIGIY						130

SEQ ID NO:11 M11

MAKLQAITLS	GIGKNGDQTL	DLNPRGVNPT	NGVAALSEAG	AVPALEKRV	ISVSQPSRNR	60
KNYKVQVKIQ	NPTSTASGT	CDPSVTRSA	SDVTFSTQY	STVEERALVR	TELQALLADP	120
MLVNAIDNLN	PAY					133

SEQ ID NO:12 MX1

MAKLQAITLS	GIGKNGDQTL	NLNPRGVNPT	NGVAALSEAG	AVPALEKRV	ISVSQPSRNR	60
KNYKVQVKIQ	NPTSTASGT	CDPSVTRSA	ADVTFSTQY	STDEERALVR	TELKALLADP	120
MLIDAIDNLN	PAY					133

SEQ ID NO:13 NL95

MAKLNKVTLT	GIGKAGNQTL	TLTPRGVNPT	NGVASLSEAG	AVPALEKRV	VSVAQPSRNR	60
KNYKVQIKLQ	NPTACTKDAC	DPSVTRSGSR	DVTLSTTSYS	TERERALIRT	ELAALLKDDL	120
IVDAIDNLNP	AYWAALLAAS	PGGGNNPYPG	VPDSPNVKPP	GGTGTYRCP	ACYRRGELIT	180
EAKDGACALY	ACGSEALVEF	EYALEDFLGN	EFWRNWDGRL	SKYDIETHRR	CRGNGYVDLD	240
ASVMQSDDEYV	LSGAYDVVKM	QPPGTEDSPR	YYLHLMGDIY	VDLAEVTAIR	SYGMVIGFWT	300
DSKSPQLPTD	FTRFNHNCP	VQTVIVIPSL				330

SEQ ID NO:14 f2

ASNFTQFVLV	NDGGTGNVT	APSNFANGVA	EWISSNSRSQ	AYKVTCSVRQ	SSAQNRYTI	60
KVEVPKVATQ	TVGGVELPVA	AWRSYLNLEL	TIPIFATNSD	CELIVKAMQG	LLKDGNIPI	120
AIAANSGLY						129

SEQ ID NO:15 PP7

MSKTIVLSVG	EATRTLTEIQ	STADRQIFEE	KVGPLVGRLR	LTASLRQNGA	KTAYRVNLKL	60
DQADVVDCT	SVCGELPKVR	YTQVWSHDTV	IVANSTEASR	KSLYDLTKSL	VATSQVEDLV	120
VNLVPLGR						128

SEQ ID NO:16 Qbeta-240

AKLETVTLGN	IGRDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALVKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQKYA	DVTFSTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:17 Qbeta-243

AKLETVTLGN	IGRDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALVKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQKYA	DVTFSTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:18 Qbeta-250

ARLETVTLGN	IGRDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALVKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQKYA	DVTFSTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:19 Qbeta-251

ARLETVTLGN	IGRDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALVKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQKYA	DVTFSTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:20 Qbeta-259

ARLETVTLGN	IGRDGKQTLV	LNPRGVNPTN	GVASLSQAGA	VPALVKRVTV	SVSQPSRNRK	60
NYKVQVKIQN	PTACTANGSC	DPSVTRQKYA	DVTFSTQYS	TDEERAFVRT	ELAALLASPL	120
LIDAIDQLNP	AY					132

SEQ ID NO:21 AP205

MANKPMQPI	TANKIIVSD	PTLSTTFSA	SLLRQVRKVG	IAELNNVSGQ	YVSVYKRPAP	60
KPEGCADACV	IMPENQSR	TVISGSAENL	ATLKAEWETH	KRNVDTLFAS	GNAGLGFLDP	120
TAAIVSSDTT	A					131

SEQ ID NO:22 AP205 P5T

MANKPMQPI	TANKIIVSD	PTLSTTFSA	SLLRQVRKVG	IAELNNVSGQ	YVSVYKRPAP	60
KPEGCADACV	IMPENQSR	TVISGSAENL	ATLKAEWETH	KRNVDTLFAS	GNAGLGFLDP	120
TAAIVSSDTT	A					131

SEQ ID NO:23 AP205 N14D

MANKPMQPI	STADKIVSD	PTLSTTFSA	SLLRQVRKVG	IAELNNVSGQ	YVSVYKRPAP	60
KPEGCADACV	IMPENQSR	TVISGSAENL	ATLKAEWETH	KRNVDTLFAS	GNAGLGFLDP	120
TAAIVSSDTT	A					131

SEQ ID NO:24 IL1alpha1

atatatgcta	gccccctaca	cctaccagag	tgatttg			37
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SEQ ID NO:25 IL1alpha2

atatatctcg	agtgatatct	ggaagtctgt	catagag			37
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SEQ ID NO:26 ILbeta1

atatatgcta	gccccctata	gacagctgca	ctacagg			37
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SEQ ID NO:27 ILbeta2

atatatctcg	agggaagaca	cagattccat	ggtgaag			37
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SEQ ID NO:28 cystein containing linker

GGGGGCG

7

SEQ ID NO:29 pModEC1

acatcgtata	acgtttactgg	tttcacattc	accacccctga	attgactctc	ttccggggcgc	60
tatcatgccca	taccgcgaaa	ggttttgocg	cattcgatgg	tgctccgggat	ctcgacgctc	120
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SEQ ID NO:30 primerMCS-1F

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tatggatccg gctagcgctc gagggtttaa acggcgcccg cat 43
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SEQ ID NO:31 primerMCS-1R

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tcgaatgcgg ccgcggttta aaccctcgag cgctagccgg atcca 45
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SEQ ID NO:32 Bamhis6-EK-Nhe-F

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gatccacacc accaccacca ccacggttct ggtgacgacg atgacaaagc gctagccc 58
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SEQ ID NO:33 Bamhis6-EK-Nhe-R

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tcgagggeta ggcctttgtc atcgctgtca ccagaaccgt ggtgggtgtg gtggtgtg 58
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SEQ ID NO:34 oligo1F-C-glycine-linker

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tcgagggttg tgggtgtgtg tgcggttaat aagtttaaac gc 42
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SEQ ID NO:35 oligo1R-C-glycine-linker

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ggcgcggttt aaacttatta accgcaacca ccaccaccac cc 42
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SEQ ID NO:36 HIL-1 alpha

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MAKVPDMFED LKNCYSENEE DSSSIDHLSL NQKSFYHVSY GPLHEGCMQ SVSLSISSETS 60
KTSKLTFFKES MVVVATNGKV LKKRRLSLSQ SITDDLEAI ANDSEEEIIR PRSSPFSFSL 120
NVKYNFMRII KYEFILNDAL NQSIIRANDQ YLTAAALHNL DEAVKFDMDA YKSSKDDAKI 180
TVILRISKTO LYVTAQDEDEQ PVLLKEMPEI PKTITGSETN LFFWETHGT KNYFTSVAHP 240
NLFIATKQDY WVCLAGGPPS ITDFQILENQ A 271

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SEQ ID NO:37 IL-1 alpha Macaca

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MAKVPDMFED LKNCYSENEE DSSSIDHLSL NQKSFYDVSY GPLHEGCMQ SVSLSISEIS 60
KTSKLTFFKES MVVVATNGKV LKKRRLSLSQ SITDNNLEAI ANDSEEEIIR PRSAPFSFSL 120
NMTYHFIRII KHEFILNDAL NQTIIRANDQ HLTAAAIHNL DEAVKFDMDA YTSSKDDTKV 180
PVILRISKTO LYVSAQDEDEQ PVLLKEMPEI NKTITGSETN LFFWETHGT KNYFISVAHP 240
NLFIATKHON WVCLAKGLPS ITDFQILENQ A 271

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SEQ ID NO:38 IL-1 alpha Equus

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MAKVPDLFED LKNCYSENEE YSSEIDHLSL TQKSFYDASY DPLPEDCMDT FMSLTSETS 60
KTSKLNFKES VVLVAANGKI LKKRRLSLNQ FITDDLEAI ANDPEEGIIR PRSVHYNFQS 120
NTKYNFMRII NHQCTLDAL NQSVIRDTSG QYLATAALNN LDDAVKFDMDG AYTSSEDSQL 180
PVTLRISKTR LFVSAQNEDE PVLLKEMPDPT PKTIKDETNL LFFWERHGSK NYFKSVAHPK 240
LFIATKQGKL VHMARGQPSI TDFQILDNQF 270

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SEQ ID NO:39 IL-1 alpha Ovis

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MAKVPDLFED LKNCYSENEE YSSEIDHLSL NQKSFYDASY EPLREDEMKN FMSLDTSETS 60
KTSRLSFKEN VVMVTANGKI LKKRRLSLNQ FITDDLEAI ANDTEEEIIR PRSAHYSFQS 120
NVKYNFMRII HQECILNDAL NQSIIRDMG PYLTAATLNN LEEAVKFDMDV AYVSEEDSQL 180
PVTLRISKTO LFVSAQNEDE PVLLKEMPET PKIIKDETNL LFFWEKBSM DYFKSVAHPK 240
LFIATKQEKI VHMASGPPSI TDFQILEK 268

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SEQ ID NO:40 IL-1 alpha Felis

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MAKVPDLFED LKNCYSENEE YSSEIDHLSL NQKSFYDASY DPLHEDCTDK FMSPTSETS 60
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SEKYNQKII	KSQFILNDNL	SQSVIRKAGG	KYLAAAALQN	LDDAVKFDMG	AYTSKEDSKL	180
PVTLRISKTR	LFVSAQNEDE	PVLLKEMPET	PKTIRDETNL	LFFWERHGSK	NYFKSVAHPK	240
LFIATQEEQL	VHMARGLPVS	TDFQILETQS				270

SEQ ID NO:41 IL-1 alpha Bos

MAKVPDLFED	LKNCYSENEE	YSSEIDHLSL	NQKSFYDASY	EPLREDQMNK	FMSLDTSETS	60
KTSKLSFKEN	VVMVAASGKI	LKKRRLSLNQ	FITDDDLAI	ANNTTEELIK	PRSAHYSFQS	120
NVKYNFMRVI	HQECILNDAL	NQSIIRDMSG	PYLTTATLNN	LEEAVKFDMV	AYVSEEDSQL	180
PVTLRISKTR	LFVSAQNEDE	PVLLKEMPET	PKIIKDETNL	LFFWEKHGSM	DYFKSVAHPK	240
LFIATQKEKL	VHMASGPPSI	TDFQILEK				268

SEQ ID NO:42 IL-1 alpha Sus

MAKVPDLFED	LKNCYSENEE	YSSDIDHLSL	NQKSFYDASY	EPLPGDGMK	FMPLSTSKTS	60
KTSRLNFKDS	VVMAAANGKI	LKKRRLSLNQ	FITDDDLAI	ANDTEELIK	PRSATYSFQS	120
NMKYNFMRVI	NHQCILNDAR	NQSIIRDPSG	QYLMAAVLNN	LDEAVKFDMA	AYTSNDDSQL	180
PVTLRISETR	LFVSAQNEDE	PVLLKELPET	PKTIKDETS	LFFWEKHGSM	DYFKSAAHPK	240
LFIATQKEKL	VHMAPGLPSV	TDFQILENQS				270

SEQ ID NO:43 IL-1 alpha Oryctolagus

MAKVPDLFED	LKNCFSENEE	YSSAIDHLSL	NQKSFYDASY	EPLHEDCMNK	VVSLSTSETS	60
VSPNLTFQEN	VVAVTASGKI	LKKRRLSLNQ	PITDVLDTN	VSDPEEGIIK	PRSVPYTFQR	120
NMRYKYLRII	KQETLNDAL	NQSLVRDTS	QYLRAAPLQN	LGDVAVKFDMG	VYMTSKEDSI	180
LPVTLRISQT	PLFVSAQNEDE	EPVLLKEMPE	TPRIITDSES	DILFFWETQG	NKNYFKSAAN	240
PQLFIATKPE	HLVHMARGLP	SMTDFQIS				268

SEQ ID NO:44 IL-1 alpha Canis

MAKVPDLFED	LKNCYSENEE	YSSEIDHLSL	NQKSFYDMS	DPLHEDCMSL	STSEISKTSQ	60
LTFKENVVVV	AANGKILKKR	RLSLSQFITD	DDLEGIANOT	EEVIMKPRSV	AYNFHNNEKY	120
NYTRITKSQF	TINDNINQST	VRQTGGNYLM	TAATQNLDDA	VKFDMGAYTS	FDSKLPVTLR	180
ISKTRLFVSA	QNEDEPVLLK	EMPETPKTIR	DETNLFFWE	RHGSKHYFKS	VAQPKLFIAT	240
QERKLVMAR	GQPSITDFRL	LETQP				265

SEQ ID NO:45 IL-1 alpha Mus

MAKVPDLFED	LKNCYSENEE	YSSAIDHLSL	NQKSFYDASY	GSLHETCTDQ	FVSLRTSETS	60
KMSNFTFKES	RVTVSATSSN	GKILKKRRLS	FSETFTEDDL	QSITHLEET	IQPRSAPTY	120
QSDLRXKLMK	LVRQKFVMDN	SLNQTIYQDV	DKHYLSTTWL	NDLQEVKFD	MYAYSSGGDD	180
SKYPVTLKIS	DSQLFVSAQG	EDQPVLKEL	PETPKLITGS	ETDLIFFWKS	INSKNYFTSA	240
AYPELFIATK	EQSRVHLARG	LPSMTDFQIS				270

SEQ ID NO:46 IL-1 alpha Rattus

MAKVPDLFED	LKNCYSENEE	YSSAIDHLSL	NQKSFYDASY	GSLHENCTDK	FVSLRTSETS	60
KMSTFTFKES	RVVVSATSNK	GKILKKRRLS	FNQPTEDDL	EATAHLEET	IQPRSAHSE	120
QNNLRXKLIR	IVKQEFIMND	SLNQNIYVDM	DRIHLKAASL	NDLQLEVKFD	MYAYSSGGDD	180
SKYPVTLKVS	NTQLFVSAQG	EDKPVLLKEI	PETPKLITGS	ETDLIFFWEK	INSKNYFTSA	240
APPELLIATK	EQSQVHLARG	LPSMIDFQIS				270

SEQ ID NO:47 IL-1 alpha Gorilla

KNCYSENEED	SSSIDHLSLN	QKSFYHVTYG	PLHEGCMQDS	VSLSISETSK	TSKLTFKESM	60
VVVATNGKVL	KKRRLSLSQS	ITDODLEAIA	NDSEEEIIPK	RSAPFSFLSN	VKYNFMRIIK	120
NEFILNDALN	QSIIRANDQY	LTAAALHNLD	EA			152

SEQ ID NO:48 hIL-1 alpha Cavia

FEDLKNCYSE	NEEYASAIH	LSLNQKSFYD	TNYDPLHENR	VDEPVSPNPY	ENSEESNFTL	60
EDSSSSSAVV	LTSABGEVLK	KRRLSLNQTM	SNEDLEAIAN	DSEEEIIEPW	SVPSYFQSNL	120
KFKYQRSIKK	GAVITDAMEQ	SLIRESNGQH	LKAMHVVDRK	HEVKFDIDGY	VSTATRIRPV	180
TLKISKTQLY	VCAQEGQPV	LLKE				204

SEQ ID NO:49 hIL-1 beta

MAEVPDLASE	MMAYYSGNED	DLFFEADGPK	QMKCSFQDLB	LCPLDGGIQL	RISDHHYSKG	60
FRQAASVVVA	MDKLRRMLVP	CPQTFQBNDL	STFFPFIFEE	EPIFFDTWDN	EAYVHDAPVR	120
SLNCTLRDSQ	QKSLVMSGPY	ELKALHLQGG	DMEQQVVFSM	SVFQGEESND	KIPVALGLKE	180
KNLYLSCVLK	DDKPTLQLES	VDPKNYPKKK	MEKRFVFNKI	EINNKLFEFS	AQFPNWIIST	240
SQAENMPVFL	GGTKGGQDIT	DFTMQFVSS				269

SEQ ID NO:50 IL-1 beta Pan

MLVPCPQTFQ	ENDLSTFFPF	IFEEPIFFD	TWENEAYVHD	APVRSINCTL	RDSQKSLVM	60
SGPYELKALH	LQGDMEQQV	VFSMSFVQGE	ESNDKIPVAL	GLKEKNLYLS	CVLKDDKPTL	120
QLESVDPKNY	PKKMEKRFV	FNKIEINNKL	EFESAQFPNW	YISTSQAENM	PVFLGGTKGG	180
QDITDFTMQF	VSS					193

SEQ ID NO:51 IL-1 beta Macaca

MAEVPELASE	MMAYYSGNED	DLFFDVDPK	QMKCSFQDL	LCPLGGGIQL	QISHEHYNEG	60
FRQAVSVVVA	MEKLRKMLVP	CPQIFQDNDL	STLIPFIFEE	EPVFLDTRNN	DACVHDAPVR	120
SLBCTLRDAQ	LKSLVMSGPY	ELKALHLQGG	DLEQQVVFMS	SFVQGEESND	KIPVALGLKA	180
KNLYLSCVLK	DDKPTLQLES	VDPKNYPKKK	MEKRFVFNKI	EINNKEFES	AQFPNWIIST	240
SQAENMPVFL	GGTRGGQDIT	DFTMQFVSS				269

SEQ ID NO:52 IL-1 beta Oryctolagus

MATVPELTSE	MMAYHSGNEN	DLFFEADGPN	YMKSCFQDL	LCCPDEGIQL	RISCQPYNKS	60
FRQVLSVVVA	LEKLRQKAVP	CPQAFQDDGL	RTFFSLIFEE	BPVLCNTWDD	YSLECDAVRS	120
LHCRILQDAQ	KSLVLSGTYE	LKALHLNAEN	LNQQVVFMS	FVQGEESNDK	IPVALGLRGK	180
NLYLSCVMKD	DKPTLQLESV	DPNRYPKKKM	EKRPFVFNKI	IKDKLEFESA	QFPNWIISTS	240
QTEYMPVFLG	NNSGGQDLID	FSMEFVSS				268

SEQ ID NO:53 IL-1 beta Mus

MATVPELNCE	MPPFDSDEND	LFPEVDGPQK	MKGCFQTFDL	GCPDESIQLQ	ISQQHINKSF	60
RQAVSLIVAV	EKLWQLPVSE	PWTFQEDDMS	TFFSFIFEEE	PILCDSWDDD	DNLLVCDVPI	120
RQLHYRLRDE	QKSLVLSDP	YELKALHLNG	QNINQQVIFS	MSFVQGEPSN	DKIPVALGLK	180
GKNLYLSCVM	KDGTPTLQLE	SVDPKQYPKK	KMEKRFVFNK	TEVKSKEVEF	SAEFPNWIIS	240
TSQAEHKPVF	LGNNSGQDII	DFTMESVSS				269

SEQ ID NO:54 IL-1 beta Rattus

MATVPELNCE	IAAFDSEEND	LFPEADRPQK	IKDCFQALDL	GCPDESIQLQ	ISQQHLDKSF	60
RKAVSLIVAV	EKLWQLPMSC	PWSFQDEDP	TFFSFIFEEE	PVLCDSWDDD	DLVCDVPIR	120
QLBCRLRDEQ	QKCLVLSDFC	ELKALHLNGQ	NISQQVVFMS	SFVQGETSND	KIPVALGLKG	180
LNLYLSCVMK	DGTPTLQLES	VDPKQYPKKK	MEKRFVFNKI	EVKTKVEFES	AQFPNWIIST	240
SQAHRPVFL	GNSNGRDIVD	FTMEPVSS				268

SEQ ID NO:55 IL-1 beta Equus

MAAVPETSOM	MTYCSCNEND	LFPEEDGPKQ	MKGSFQDL	SSMCNCGIQL	QFSHQLYNKT	60
VKHVSVIIVA	MEKLKKIPVP	CSQAFQDDDL	RSLPSVIFEE	EPICDNWDD	DYVCDAAVHS	120
VNCRRLDIYH	KSLVLSGACE	LQAVHLNGEN	TNQQVVFMS	FVQGEETDK	IPVALGLKEK	180
NLYLSCGMKD	GKPTLQLETV	DPNTYPKRKM	EKRPFVFNKME	IKGNVEFESA	MYPNWIISTS	240
QAEKKPVFLG	NTRGGRDITD	FIMEITSA				268

SEQ ID NO:56 IL-1 beta Felis

MAPVPELTSE	MMAYYSDEND	LFPEADGPEK	MKGSQNLSE	SFLGDEGIQL	QISHQPDNKS	60
LRAVSVIIVA	MEKLKKISFA	CSQPLQDEDL	KSLFCCIFEE	EPICDTWDD	CFVCDAAIOS	120
QDYTRDISQ	KSLVLSGSYE	LRALHLNGQN	MNQQVVFMS	FVHGEENSKK	IPVVLICIKKN	180
NLYLSCVMKD	GKPTLQLEML	DPKVPYKPKM	EKRPFVFNKTE	IKGNVEFESS	QFPNWIISTS	240
QAEEMPVFLG	NTKGGQDITD	FIMESAS				267

SEQ ID NO:57 IL-1 beta Sus

MATVPEPAKE	VMANNGDNNN	DLFEADGPK	EMKCRQNL	LSPLGDGSIQ	LQISHQLCNE	60
SSRPVSVIV	AKKEEPMNPSS	QVCDDBPKS	IFSSVFEEEP	IVLEKHANGF	LCDATPVQSV	120
DCKLQDKDER	ALVLGAPHEL	KALHLLKGD	KREVVFCMSF	VQGDSDDKI	PVTLGKIGKN	180
LYLSCVMKDD	TPTLQLEVD	PKSYPKRDME	KRFVFKTEI	KNRVEFESAL	YPNWIISTSQ	240
AEQKPVFLGN	SKGRQDITDF	TMEVLSF				267

SEQ ID NO:58 IL-1 beta Cavia

MAAVPELSSE	VTAYHSDENE	LFPEVDGPNK	MQYCFQDRDL	CSLDEGIKLQ	ISHQHFNKSF	60
RQTVSLIVAV	EKLAKKLAPC	TWAFQDDDLR	PLLPFIFEEE	PVCDTWDEE	YESDTPVPSR	120
NCTLBIDIQHK	RLVLSDPCEL	KALHLNGDNL	NRQVVFMSF	VQGERSDNKM	PVALGLKGKN	180
LYLSCVMKDG	KPVQLLESVD	GKQYPKKKME	KRFVFNKITS	KSTVEFESAQ	FPNWIISTSQ	240
AEHKPVFLGN	NNGQDIIDFK	LELVSS				266

SEQ ID NO:59 IL-1 beta Bos

MATVPEPINE	MMAYYSDENE	LLFEADDPKQ	MKSCIOHLDL	GSMGDGNIQL	QISHQFYNKS	60
FRQVSVIIVA	MEKLRSAYA	HVFHDDDLRS	ILSFIFEEEP	VIFETSSDEF	LCDAPVQSIK	120
CKLQDREQKS	LVLASPCVLK	ALHLLSQEMN	REVVFMSFV	QGEERDNKIP	VALGIRKKNL	180
YLSCVKKGDT	PTLQLEEVDP	KVYPKRNMEK	RFVFKTEIK	NTVEFESVLY	PNWIISTSQI	240
EERPVELGHF	RGGQDITDFR	METLSP				266

SEQ ID NO:60 IL-1 beta Ovis

MATVPEPINE	VMAYYSDENE	LLFEVDGPKQ	MKSCTQHLDL	GSMGDGNIQL	QISHQLYNKS	60
FRQVSVIIVA	MEKLRSRAYE	HVFRDDDLRS	ILSFIFEEEP	VIFETSSDEL	LCDAAVQSVK	120
CKLQDREQKS	LVLDSPCVLK	ALHLLSQEMS	REVVFMSFV	QGEERDNKIP	VALGIRKKNL	180
YLSCVKKGDT	PTLQLEEVDP	KVYPKRNMEK	RFVFKTEIK	NTVEFESVLY	PNWIISTSQI	240
BEKPVFLGRF	RGGQDITDFR	METLSP				266

SEQ ID NO:61 IL-1 beta Gallus

MAFVPDLQVLE	ESSSLSEETF	YGPSCICLQK	KPRLDSEHTT	VDVQVTVRKQ	RGARSFRRAA	60
VLVVAMTKLL	RRPRSDFAD	SDLSALLEEV	FEPVTFQRL	SSYAGAPAFR	YTRSQSFDIF	120
DINQKCFVLE	SPTQLVALHL	QGPSSSQKVR	LNIALYRPRG	PRGSAGTGQM	PVALGIKGYK	180
LYMSCVMSGT	EPTLQLEED	VMRDIDSVEL	TRFIFYRLDS	PTEGTTRFES	AAFPGWFICT	240
SLQPRQPVGI	TNQPDQVNIA	TYKLGR				267

SEQ ID NO:62 IL-1 beta Canis

GPGGSNVKCC	CQDLNHSSLV	DEGIQLQVSH	QLCNKSLRHF	VSVIVALEKL	KKPCPQVLQE	60
DDLKSIFCYI	FEEPIICTT	DADNFMSDAA	MQSVDCQLQD	ISHKYLVLNS	SYELRALHLN	120
GENVNKA						127

SEQ ID NO:63 hIL-1 alpha 119-271

LSNVKYNFMR	IIKYEFLND	ALNQSIIRAN	DQYLTAALH	NLDEAVKFDM	GAYKSSKDDA	60
KITVILRISK	TQLYVTAQDE	DQPVLLKEMP	EIPKTTITGSE	TNLLFFWETH	GTKNYFTSVA	120
HPNLFIAATKQ	DYWVCLAGGP	PSITDFQILE	NQA			153

SEQ ID NO:64 hIL-1 beta 117-269

APVRSNLCTL	RDSQQKSLVM	SGPYELKALH	LQGQDMEQQV	VFSMSFVQGE	ESNDKIPVAL	60
GLKEKNLYLS	CVLKDDKPTL	QLESVDPKNY	PKKKMEKRFV	FNKIEINNKL	EFESAQFPNW	120
YISTSQAENM	PVFLGGTKGG	QDITDFTMQF	VSS			153

SEQ ID NO:65 mIL-1alpha117-270

MDPBBBBHHG	SGDDDDKALA	PYTYQSDLR	KLMKLVQRKF	VMNDSLNTI	YQDVKHYLS	60
TTWLNDLQGE	VKFDMYAYSS	GGDDSKYPVT	LKISDSQLFV	SAQGEDQPV	LKELPETPKL	120
ITGSETDLIF	FWKSINSKNY	FTSAAYPELF	IATKEQSRVH	LARGLPSTMD	FQISLEGGGG	180
GCG						183

SEQ ID NO:66 mIL-1beta119-269

MDPBBBBHHG	SGDDDDKALA	PIRQLHYRLR	DEQKSLVLS	DPYELKALHL	NGQNINQQVI	60
FMSFVQGE	SNKIPVALG	LKGKNLYLSC	VMKGTPTLQ	LESVDPKQYP	KKKMEKRFV	120
NKIEVRSKVE	FESAEPFNWY	ISTSQAERKP	VFLGNNSGQD	IIDFTMESVS	SLEGGGGGCG	180

SEQ ID NO:67 hIL-1 alpha 009-020

MRIIKYEFL ND						12
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SEQ ID NO:68 hIL-1 alpha 010-015

RIIKYE						6
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SEQ ID NO:69 hIL-1 alpha 014-023

YEFILNDALN						10
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SEQ ID NO:70 hIL-1 alpha 019-030

NDALNQSIIR AN						12
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SEQ ID NO:71 hIL-1 alpha 035-044

TAAALHNLD						10
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SEQ ID NO:72 hIL-1 alpha 035-046

TAAALHNLD	AV					12
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SEQ ID NO:73 hIL-1 alpha 045-054

AVKFDMGAYK						10
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SEQ ID NO:74 hIL-1 alpha 052-062

AYKSSKDDAK I						11
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SEQ ID NO:75 hIL-1 alpha 055-084

SSKDDAKITV	ILRISKTLQY	VTAQDEQPV	L			31
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SEQ ID NO:76 hIL-1 alpha 063-075

VILRISKTLQ	YVT					13
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SEQ ID NO:77 hIL-1 alpha 063-084

VILRISKTLQ	YVTAQDEQPV	VL				22
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SEQ ID NO:78 hIL-1 alpha 069-089

TQLYVTAQDE	DQPVLLKEMP					20
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SEQ ID NO:79 hIL-1 alpha 082-102

PVLLKEMPEI PKTITGSETN L	21
SEQ ID NO:80 hIL-1 alpha 087-100 EMPEIPKTIT GSET	14
SEQ ID NO:81 hIL-1 alpha 093-104 KTITGSETNL LF	12
SEQ ID NO:82 hIL-1 alpha 093-113 PKTITGSETN LLFFWETHGT K	21
SEQ ID NO:83 hIL-1 alpha 097-106 GSETNLLFFW	10
SEQ ID NO:84 hIL-1 alpha 123-134 LFIATKQDYW VC	12
SEQ ID NO:85 hIL-1 alpha 124-136 FIATKQDYWV CLA	13
SEQ ID NO:86 hIL-1 alpha 125-142 IATKQDYWVC LAGGPPSI	18
SEQ ID NO:87 hIL-1 alpha 129-133 KQDYW	5
SEQ ID NO:88 hIL-1 alpha 147-153 QILENQA	7
SEQ ID NO:89 hIL-1 beta 001-006 APVRSI	6
SEQ ID NO:90 hIL-1 beta 001-012 APVRSINCTL RD	12
SEQ ID NO:91 hIL-1 beta 006-015 LNCTLRDSQQ	10
SEQ ID NO:92 hIL-1 beta 011-022 RDSQQKSLVM SG	12
SEQ ID NO:93 hIL-1 beta 027-038 KALHLQGQDM EQ	12
SEQ ID NO:94 hIL-1 beta 027-040 KALHLQGQDM EQQV	14
SEQ ID NO:95 hIL-1 beta 039-048 QVVFMSFVQ	10
SEQ ID NO:96 hIL-1 beta 046-056 FVQGEESNDK I	11
SEQ ID NO:97 hIL-1 beta 049-080 GEESNDKIPV ALGLKEKNLY LSCVLKDDKP TL	32
SEQ ID NO:98 hIL-1 beta 058-070 VALGLKEKNL YLS	13
SEQ ID NO:99 hIL-1 beta 058-080 VALGLKEKNL YLSCVLKDDK PTL	23
SEQ ID NO:100 hIL-1 beta 066-085 KNLYLSCVLK DDKPTLQLES V	21
SEQ ID NO:101 hIL-1 beta 078-097 PTLQLESVDP KNPYKKKMEK	20

SEQ ID NO:102 hIL-1 beta 083-095 ESVDPKNYPK KKM	13
SEQ ID NO:103 hIL-1 beta 088-099 KNYPKKKMEK RF	12
SEQ ID NO:104 hIL-1 beta 092-101 KKKMEKRFFV	10
SEQ ID NO:105 hIL-1 beta 092-109 KKKMEKRFFV NKIEINNK	18
SEQ ID NO:106 hIL-1 beta 120-133 WYISTSQAEN MPVF	14
SEQ ID NO:107 hIL-1 beta 121-135 YISTSQAENM PVFLG	15
SEQ ID NO:108 hIL-1 beta 122-143 ISTSQAENMP VFLGGTKGGQ DI	22
SEQ ID NO:109 hIL-1 beta 126-131 QAENMP	6
SEQ ID NO:110 hIL-1 beta 147-152 TMQFVSS	7
SEQ ID NO:111 mIL-1 beta 001-012 VPIRQLBYRL RD	12
SEQ ID NO:112 mIL-1 beta 027-040 KALHLNGQNI NQQV	14
SEQ ID NO:113 mIL-1 beta 121-135 YISTSQAENK PVFLG	15
SEQ ID NO:114 rIL-1 beta 066-085 NLYLSCVMKD GTPTLQLESV	20
SEQ ID NO:115 rIL-1 beta 078-097 PTLQLESVDP KQYPKKKMEK	20
SEQ ID NO:116 rIL-1 beta 122-143 ISTSQAENHP VFLGNSNGRD IV	22
SEQ ID NO:117 AP590 atggcaaata agccaatgca accgatcaca tctacagcaa ataaaattgt gtggtcggat ccaactcggt tatcaactac attttcagca agtctgttac gccaacgtgt taaagttggt atagcogaac tgaataatgt ttcaggtcaa tatgtatctg tttataagcg tcttgcacct aaaccggaag gttgtgcaga tgcctgtgtc attatgccga atgaaaacca atccattcgc acagtgtatt cagggtcagc cgaaaacttg gctacottaa aagcagaatg ggaaactcac aaacgtaacg ttgacacact cttcgcgagc ggcaacgccg gtttgggttt ccttgaccct actgcggcta tcgtatcgtc tgatactact gcttagggat ccggataatg catctaagct t	60 120 180 240 300 360 420 421
SEQ ID NO:118 AP592 atggcaaata agccaatgca accgatcaca tctacagcaa ataaaattgt gtggtcggat ccaactcggt tatcaactac attttcagca agtctgttac gccaacgtgt taaagttggt atagcogaac tgaataatgt ttcaggtcaa tatgtatctg tttataagcg tcttgcacct aaaccggaag gttgtgcaga tgcctgtgtc attatgccga atgaaaacca atccattcgc acagtgtatt cagggtcagc cgaaaacttg gctacottaa aagcagaatg ggaaactcac aaacgtaacg ttgacacact cttcgcgagc ggcaacgccg gtttgggttt ccttgaccct actgcggcta tcgtatcgtc tgatactact gcttagggat ccggataatg catctaagct t	60 120 180 240 300 360 420 421
SEQ ID NO:119 p1.44 nnccatggca aataagccaa tgcaaccg	28

SEQ ID NO:120 pINC-36
gtaagcttag atgcattatc cggatcccta agcagtagta tcagacgata cg 52

SEQ ID NO:121 pINC-40
gtaagcttag atgcattatc cggatcccta agcagtagta tcagacgata cg 52

SEQ ID NO:122 pINC-34
ggtcgggagc gctagccctt tacac 25

SEQ ID NO:123 pINC-35
gtaagcttat gcattatgat atctggaagt ctgtcataga 40

SEQ ID NO:124 HIL-1
atatatgata tccctgtacg atcactgaac tgcacg 36

SEQ ID NO:125 HIL-2
atatatctcg agggaagaca caaattgcat ggtgaag 37

SEQ ID NO:126 42-1
tatggatata gaattcaagc ttctgcagct gctcagagtaa ttgattac 48

SEQ ID NO:127 42-2
ctaggaatac aattactcga gcagctgcag aagcttgaat togatatcca 50

SEQ ID NO:128 42T-1
tcgagcacca ccaccaccac caccggtggtt gctaataata attgattaat ac 52

SEQ ID NO:129 42T-2
ctaggtatta atcaattatt attagcaacc accgtggtgg tgggtggtgg gc 52

SEQ ID NO:130 hIL-1 beta 116-269
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSSLEHHN HHHGGC 166

SEQ ID NO:131 hIL-1 beta 116-269(R4D)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:132 hIL-1 beta 116-269(L6A)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:133 hIL-1 beta 116-269(T9G)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:134 hIL-1 beta 116-269(R11G)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:135 hIL-1 beta 116-269(D54R)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNRKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:136 hIL-1 beta 116-269(D145K)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTSQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:137 hIL-1 beta 116-269(DEE50,51)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GSNDKIPVAL 60
GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW 120

YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS	153
SEQ ID NO:138 hIL-1 beta 116-269(DSND52-54)	
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEEKIPVALG	60
LKEKNLYLSC VLRDDKPTLQ LESVDPKNYP KKKMEKR FVF NKIEINN KLE FESAQFPNWY	120
ISTSQAENMP VFLGGTKGG QDITDFTMQFV SS	152
SEQ ID NO:139 hIL-1 beta 116-269(K63S/K65S)	
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV	60
ALGLSES NLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVF NKIEINN KLEFESAQFP	120
NWYISTSQAE NMPVFLGGTK GGQDITDFTM QFVSS	155
SEQ ID NO:140 hIL-1 beta 116-269(Q126A/E128A)	
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFSMSFVQ GEESNDKIPV	60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVF NKIEINN KLEFESAQFP	120
NWYISTSAAA NMPVFLGGTK GGQDITDFTM QFVSS	155
SEQ ID NO:141 HIL-3	
atatatcata tgctgagcaa tglgaaatac aactttatg	39
SEQ ID NO:142 HIL-4	
atatatctcg agcgccctggt ttccagtat ctgaaag	37
SEQ ID NO:143 R4D-1	
catatggata tcctgtaga ctcaactgaac tgcaagctc	39
SEQ ID NO:144 R4D-2	
gagcgtgcag ttccagttagt ctacagggat atccatatg	39
SEQ ID NO:145 L6A-1	
gatatccctg tacgatcagc taactgcacg ctccgggac	39
SEQ ID NO:146 L6A-2	
gtcccgaggc gtgcagttag ctgatcgtac agggatatc	39
SEQ ID NO:147 T9G-1	
gtacgatcac tgaactgcgg tctccgggac tcacagc	37
SEQ ID NO:148 T9G-2	
gctgtgagtc ccggagaccg cagttcagtg atcgtac	37
SEQ ID NO:149 R11G-1	
gaactgcacg ctccggggact cacagc	26
SEQ ID NO:150 R11G-2	
gctgtgagtc ccgagcgtg cagttc	26
SEQ ID NO:151 D54R-1	
caaggagaag aaagtaatcg caaaatacct gtggccttg	39
SEQ ID NO:152 D54R-2	
caaggccaca ggtattttgc gattactttc ttctccttg	39
SEQ ID NO:153 EE-1	
catgtccttt gtacaaggaa gtaatgacaa aatacctgtg	40
SEQ ID NO:154 EE-2	
cacaggtatt ttgtcattac ttcottgtac aaaggacatg	40
SEQ ID NO:155 SND-1	
ctttgtacaa ggagaagaaa aaatacctgt ggccttg	37
SEQ ID NO:156 SND-2	
caaggccaca ggtatttttt cttctccttg taaaaag	37
SEQ ID NO:157 K6365S-1	
gtggccttgg gcctcagcga aagcaatctg tacctgtcct g	41

SEQ ID NO:158 K6365S-2	
caggacaggt acagattgct ttcgtgagg cccaaggcca c	41
SEQ ID NO:159 QE-1	
gtacatcagc acctctgcag cagcaaacat gcccgctcttc	40
SEQ ID NO:160 QE-2	
gaagacgggc atgtttgctg ctgcagaggt gctgatgtac	40
SEQ ID NO:161 D145K-1	
gcggccagga tataactaaa ttcaccatgc aatttgtgtc	40
SEQ ID NO:162 D145K-2	
gacacaaatt gcatggtgaa tttagttata ttcgtggccgc	40
SEQ ID NO:163 mIL-1 alpha 117-270 without tag	
PYTYQSDLRV KLMKLVQRKF VMNDSLQNTI YQDVVDKHYLS TTWLNLDLQOE VKFDMYAYSS	60
GGDDSKYPVT LKISDSQLFV SAQGEDQPVV LKELPETPKL ITGSETDLIF FWKSINSKNY	120
FTSAAYPELF IATKEQSRVH LARGLPSMTD FQIS	154
SEQ ID NO:164 mIL-1 beta 119-269 without tag	
PIRQLEHYRLR DEQQKSLVLS DPYELKALHL NGQINQQVI FMSFVQGEF SNDKIPVALG	60
LKGNLYLSC VMKDGTPTLQ LESVDPKQYP KKKMEKRFVF NKIEVKSKVE FESAEFPNWW	120
ISTSQAELHP VFLGNNSGQD IIDFTMESVS S	151
SEQ ID NO:165 hIL-1 beta 116-269 without tag	
MDIPVRSLLC TLRDSQQKSL VMSGPYELKA LHLQGDMEQ QVVFMSFVQ GEESNDKIPV	60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKMEKR FVFNKIEINN KLEFESAQFP	120
NWYISTSQAE NMPVELGGTK GGDITDFTM QFVSS	155
SEQ ID NO:166 interleukin 1 receptor, type I	
MKVLLRLICF IALLISSLEA DKCKEREKEI ILVSSANEID VRPCPLNPNE HKGTITWYKD	60
DSKTPVSTEQ ASRIHQHKEK LWFVPAKVED SGHYVCVVRN SSYCLRIKIS AKFVENEPNL	120
CYNAQAIFKQ NLPVAGDGGI VCPYMEFFKN ENNELPKLQW YKDCPKLLLD NIHFSGVKDR	180
LIVMNVAEKH RGNVYCHASY TYLGKQYPIT RVIEFITLEE NKPTRPVIVS PANETMEVDL	240
GSQIQILCNV TQQLSDIAYV KWNQSVIDED DPVLGEDYYS VENPANKRRS TLITVLNISE	300
IESRFYKHPF TCFANKTHGI DAAYIQLIYP VTNFQKHMIG ICVTLTVIIV CSVFIYKIFK	360
IDIVLWYRDS CYDFLPIKAS DGKTYDAYIL YPKTVGEGST SDCDIFVFKV LPEVLEKQCG	420
YKLFYIGRDD YVGEDIVEVI NENVKRSRL IILVRETSS FSWLGGSSSE QIAMYNALVQ	480
DGKVVLEL EKIQDYKMP ESIKFLKQKH GAIRWSGDFT QGPQSAKTRF WKNVRYHMZV	540
QRRSPSSKHQ LLSPATKEKL QREAHVPLG	569
SEQ ID NO:167 interleukin 1 receptor, type II	
MLRLVVLVMG VSAFTLQPAH HTGAARSCRF RGRHYKREFR LEGEPVALRC PQVPYWLWAS	60
VSPRINTWH KNSARTVPG EETRMWAQD GALWLLPALQ EDSGTIVCTT RNASYCDKMS	120
IELRVFENTD AFLPFIISYPQ IITLSTSGVL VCPDLSEFTR DKTDVKIQWY KDSLLDQKDN	180
EKFLSVRGTT HLLVHDVALE DAGYRCVLT FAHEGQQYNI TRSIELRIKK KKEETIPVII	240
SPLKTIASL GSRLTIPCKV FLGTGTPLTT MLWWTANDTH IESAYPGGRV TEGPRQYSE	300
NNENYIEVPL IFDPVTREDL HMDFKCVVEN TLFQTLRTT VKEASSTFSW GIVLAPLSLA	360
FLVLGGIWMH RRCKHRTGKA DGLTVLWPHH QDFQSYPK	398
SEQ ID NO:168 interleukin 1 receptor, type I (mouse)	
MENMKVLLGL ICLMVPLLSL EIDVCTEYPN QIVLFLSVNE IDIRKCPDTP NKMHGDTIIV	60
YKNDKSTPIS ADRDSRIHQQ NEHLWFPVAK VEDSGYYYCI VRNSTYCLKT KVTVTVLEND	120
PGLCYSTQAT FPQRLHIAGD GSVLCPYVSY FKDNNELPE VQWYKNCKPL LLDNVSEFGV	180
KDKLLVRNVA EHRGDYICR MSYTFRGKQY PVTRVIQFIT IDENKRDPRV ILSRNETIE	240
ADPGSMICLI CNVTGQFSDL VYWKWNGSEI EWNDPFLAED YQFVEHPSTK RXYTLITLNL	300
ISEVKSQFYR YPFCVVKNT NIFESAHVQL IYPVPDFKNY LIGGFILTA TIVCCVCIYK	360
VFKVDIVLWY RDSGSGFLPS KASDGKTYDA YILYPTLGE GSFSDLDTFV FKLLPEVLEG	420
QFGYKLFYIG RDDYVGEDTI EVTNENVKKS RRLIILVLD MGGFSWLGQS SEEQIATYNA	480
LIQEGIKIVL LELEKIQDYE KMPDSIQFIK QKHGVICWSG DFQERPQSAK TRFWKNLRYQ	540
MPAQRRSPLS KHRLLTLDPV RDTKEKLPAH THLPLG	576
SEQ ID NO:169 interleukin 1 receptor, type II (mouse)	
MFILLVLVTG VSAFTTPTVV HTGKVSESPI TSEKPTVHGD NCQFRGREFK SELRLGEPV	60
VLRCPLAPHS DISSSSHSFL TWSKLDSSQL IPRDEPRMWV KGNILWILPA VQDQSGTYIC	120
TFRNASHCEQ MSVELKVFNK TEASLPHVSY LQISALSTTG LLVCPDLKEF ISSNADGKIQ	180
WYKGAILLDK GNKEFLSAGD PTRLLISNTS MDDAGYYRCV MTFTYNGQY NITRNIELRV	240
KGTTTEPIV IISPLETIPA SLGSRLIVPC KVFLGTGTSS NTIVWWLANS TFISAAYPRG	300
RVTEGLHHQY SENDENYVEV SLIFDPVIRE DLHTDFKQVA SNPRSSQSLH TTVKEVSSTF	360
SWSIAPLPLS LIIILVVGAIW MRRRCKRRAK KTYGLTKLRT DNQDFPSSPN	410

SEQ ID NO:170 peptide GGKGG	5
SEQ ID NO:171 linker CGG CGG	3
SEQ ID NO:172 linker CGDKTHTSPP CGDKTHTSPP	10
SEQ ID NO:173 linker CGGPKPSTPPGSSGGAP CGGPKPSTPP GSSGGAP	17
SEQ ID NO:174 linker GCGGGG GCGGGG	6
SEQ ID NO:175 linker GCG GCG	3
SEQ ID NO:176 linker GGGGS GGGGS	5
SEQ ID NO:177 linker GCGSGGGGS GCGSGGGGS	9
SEQ ID NO:178 linker GGC GGC	3
SEQ ID NO:179 linker GGC-NH2 GGC	3
SEQ ID NO:180 linker DKTHTSPPCG	10
SEQ ID NO:181 linker PKPSTPPGSSGGAPGGCG PKPSTPPGSS GGAPGGCG	18
SEQ ID NO:182 linker GGGGCG GGGGCG	6
SEQ ID NO:183 linker GCG (2) GCG	3
SEQ ID NO:184 linker SGGGG SGGGG	5
SEQ ID NO:185 linker GSGGGGSGCG	10
SEQ ID NO:186 linker GGKKGC GGKKGC	6
SEQ ID NO:187 linker CGKKGG CGKKGG	6
SEQ ID NO:188 linker GGCG GGCG	4
SEQ ID NO:189 linker GSG GSG	3
SEQ ID NO:190 His-Tag with Linker LEHHHHHHGG C	11
SEQ ID NO:191 MOG peptide MEVGWYRSPF SRVHLYRNG K	21

SEQ ID NO:192 pINC-75
gatcgggagg tgggtgtcccc attagacagc t 31

SEQ ID NO:193 pINC-77
gtaagcttag gaagacacag attccat 27

SEQ ID NO:194 pINC-74
gatcgggagg tgggtgcccct gtacgatcac tgaactg 37

SEQ ID NO:195 pINC-76
gtatgcatta ggaagacaca aattgcatgg tgaagtc 37

SEQ ID NO:196 IL1a1C
atatacata tgtctgcccc ttacacctac cagagtg 37

SEQ ID NO:197 alphaD145K-1
ggactgcccct ctatgacaaa attccagata tcaactcgag 39

SEQ ID NO:198 alphaD145K-2
ctcgagtgat atctggaatt ttgtcataga gggcagtc 39

SEQ ID NO:199 halphad145K-1
gggccaccct ctatcactaa atttcagata ctggaaaacc 40

SEQ ID NO:200 halphad145K-2
gggtttccag tatctgaaat ttagtgatag aggggtggccc 40

SEQ ID NO:201 Histag-GGC
LEHHHHHHGG C 11

SEQ ID NO:202 mIL-1 alpha 115-270 without tag
MSAPYTYQSD LRYKLMKLVK QKFVMNDSL N QTIYQDVVDKH YLSTTWLNDL QQEVKFDMYA 60
YSSGGDDSKY PVTIKISDSQ LFVSAQGEDQ PVLLKELPET PKLITGSETD LIPFWKSINS 120
KNYFTSAAYP ELFIATKEQS RVHLARGLPS MTDFAQIS 157

SEQ ID NO:203 hIL-1 alpha 119-271 without tag
MLSNVYNFM RIIKYEFLN DALNQSIIRA NDQVLTAAAL HNLDEAVKFD MGAYKSSKDD 60
AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKITITGS ETNLLFFWET HGTKNYFTSV 120
AHPNLFIA TK QDYVWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:204 mIL-1 alpha 115-270 (D145K)
DSAPYTYQSD LRYKLMKLVK QKFVMNDSL N QTIYQDVVDKH YLSTTWLNDL QQEVKFDMYA 60
YSSGGDDSKY PVTIKISDSQ LFVSAQGEDQ PVLLKELPET PKLITGSETD LIPFWKSINS 120
KNYFTSAAYP ELFIATKEQS RVHLARGLPS MTKFAQIS 157

SEQ ID NO:205 hIL-1 beta 116-269 (K88N)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSMFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPN NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:206 hIL-1 beta 116-269 (R98Q)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSMFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:207 hIL-1 beta 116-269 (K103L)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSMFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:208 hIL-1 beta 116-269 (Rkkk92-94)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSMFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPMEKRFFV NKIEINN KLEFESAQFP 120
ISTSQAE NMP VFLGGTKGGQ DITDFTMQFV SS 152

SEQ ID NO:209 hIL-1 beta 116-269 (L10N)
MDIPVRS LNC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSMFVQ GEESNDKIPV 60
ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
NWIYSTQAE NMPVFLGGTK GGQDITDFTM QFVSS 155

SEQ ID NO:210 hIL-1 alpha 119-271 (D145K)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITKFQIL ENQA 154

SEQ ID NO:211 hIL-1 alpha 119-271 (L18K)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:212 hIL-1 alpha 119-271 (F146N)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDNQIL ENQA 154

SEQ ID NO:213 hIL-1 alpha 119-271 (R10A)
 MLSNVKYNFM AIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:214 hIL-1 alpha 119-271 (I62A)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:215 hIL-1 alpha 119-271 (W107F)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:216 hIL-1 alpha 119-271 (D20V)
 MLSNVKYNFM RIIKYEFILN VALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV 120
 AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQA 154

SEQ ID NO:217 hIL-1 alpha 119-271 (rFIL16-18)
 RRSNVKYNFM RIIKYENDAL NQSIIRANDQ YLTAAALHNL DEAVKFDMDGA YKSSKDDAKI 60
 TVILRISKIQ LYVTAQDEQDQ PVLLKEMPEI PKTITGSETN LFFWETHGT KNYFTSVVHP 120
 NLFIAATKQDY WVCLAGGPPS ITDFQILENQ A 151

SEQ ID NO:218 hIL-1 alpha 119-271 (rITGS96-99)
 MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD 60
 AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTETNL LFFWETHGT NYFTSVVHPN 120
 LFIATKQDYW VCLAGGPPSI TDFQILENQ 150

SEQ ID NO:219 Histag-GGC
 LEHHHHHHGG CG 12

SEQ ID NO:220 hIL-1 beta 116-269 (D145K) with LEHHHHHHGGCG-tag
 MDIPVRSNLC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSFVQ GEESNDKIPV 60
 ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
 NWWISTSQAE NMPVFLGGTK GGDITKFTM QFVSSLEHHH HHHGGCG 167

SEQ ID NO:221 hIL-1 beta 116-269 (D145K) with GGCG-tag
 MDIPVRSNLC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSFVQ GEESNDKIPV 60
 ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
 NWWISTSQAE NMPVFLGGTK GGDITKFTM QFVSSGGCG 159

SEQ ID NO:222 hIL-1 beta 116-269 (D145K) with GGC-tag
 MDIPVRSNLC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSFVQ GEESNDKIPV 60
 ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
 NWWISTSQAE NMPVFLGGTK GGDITKFTM QFVSSGGCG 158

SEQ ID NO:223 hIL-1 beta 116-269 with GGCG-tag
 MDIPVRSNLC TLRDSQQKSL VMSGPYELKA LHLQGQDMEQ QVVFMSFVQ GEESNDKIPV 60
 ALGLKEKNLY LSCVLKDDKP TLQLESVDPK NYPKKKMEKR FVFNKIEINN KLEFESAQFP 120
 NWWISTSQAE NMPVFLGGTK GGDITDFTM QFVSSGGCG 159

SEQ ID NO:224 hIL-1 alpha 119-271 (SEQ ID NO:203) with GGCG-tag

MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD	60
AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV	120
AHPNLFIAATK QDYWVCLAGG PPSITDFQIL ENQAGGCG	158

SEQ ID NO:225 hIL-1 alpha 119-271 (D145K) (SEQ ID NO:204) with GGCG-tag

MLSNVKYNFM RIIKYEFILN DALNQSIIRA NDQYLTAAL HNLDEAVKFD MGAYKSSKDD	60
AKITVILRIS KTQLYVTAQD EDQPVLLKEM PEIPKTITGS ETNLLFFWET HGTKNYFTSV	120
AHPNLFIAATK QDYWVCLAGG PPSITKFQIL ENQAGGCG	158

SEQ ID NO:226 IL1BETA-3

atatatgata tocccattag acagctgcac tacagg	36
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SEQ ID NO:227 IL1BETA-2

atatatctcg agggaagaca cagattccat ggtgaag	37
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SEQ ID NO:228 mIL-1 beta 116-269 (D145K)

MDIPIRQLHY RLRDEQQKSL VLSDPYELKA LELNGQNINQ QVIFSMSEVQ GEPSNDKIPV	60
ALGLKGKNLY LSCVMKDGTP TLQLESVDPK QYPKKMEKR FVFNKIEVKS KVEFESAEP	120
NWYISTSQAE BKPVPLGNS GQDIKFTME SVSSLEHHHH HEGGC	165

SEQ ID NO:229 D143K-1

cagtggtcag gacataatta aattcaccat ggaatctgtg tc	42
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SEQ ID NO:230 D143K-2

gacacagatt ccatggtgaa tttaattatg tctgaccac tg	42
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