

CLUSTAL X (1.83) multiple sequence alignment

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hsIL-13Ra1      -----CIWHNLS-----YMKCSWLPGRNTSPDTNYTLYYWHRSL--EKIHQCEN
mmIl-13ra1     -----CIWHNLS-----YMKCSWLPGRNTSPDTHYTLYYWYSSL--EKSRQCEN
hsIL-5ra       -----CTTNTTEDNYSRLRSYQVSLHCTWLVGTDAPEDTQYFLYYRYGSW--TEECQEYS
mmIl-5ra       -----CTTHTTVVSSHThLRPYQVSLRCTWLVGKDAPEdTQYFLYYRFGVL--TEKCEYS
hsIL-13Ra2     -----CVYYNWQ-----YLLCSWKPgIGVLLDTNYNLFYWYEGl--DHALQCVD
mmIl-13ra2     -----CIYYNWQ-----YLVCSWKPgKTVYSdTNYTMFFWYEGl--DHALQCAD
hsIL-2Rgc      -----CFVFNVE-----YMNCTWN--SSSEPQPTNLTlHYWYKNS--DNDKVQKC
mmIl-2rgc      -----CFVFNIE-----YMNCTWN--SSSEPQATNLTlHYRYKVS--DNNTFQEC
dril-13ra2     -----CIYYGKE-----HMECTWKSgPVQPPNSEHYLYYWHREm--EETKECPE
hsGMra         -----CFIYNAD-----LMNCTWARGPTAPRDVQYFLYIRNSKR--RREIRCPY
mmGmra         -----CEIRAAR-----FLSCAWREGPAAPADVRYSLRVLNSTG--HDVARCMA
hsIL-3Ra       -----CWIHDVD-----FLSCSWAVGPGAPADVQYDLYLNVANR--RQQYECLH
mmIl-3ra       -----CwVHEGQ-----LSCQWERGPKATGDVHYRMFWRDVRlGPAHNRECPH
dril-2rgc.a    -----CLiINLD-----YVNCTWS-----EHQYNYSLKGGFYF--DIEDCPE
dril-2rgc.b    -----CKiINVD-----YVECIWQRN--LSTMNYTFSSMFANDG--LDRGCPK
huTSLPR        ---IQIiYFNLET-----VQVTWN--ASKYSRTNLTfHYRFNGD--EAYDQCTN
mmTslpr        ---VTVVCHDLET-----VEVTWGSgPD-HHSANLSLEFRYGTG--ALQPCPR
drtslpr        -----
dril-13ra1     LVKDRDFAYSHN-----KLMCTWR---PAVDVKDLGFYYWDSsl--ESLMRCIP

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hsIL-13Ra1     I-----FRE-GQYFGCSFDLTKVKDSSFEQH-----SVQIMVKDNAGKIKPSFNI
mmIl-13ra1     I-----YRE-GQHIACSFKLTKVEP-SFEHQ-----NVQIMVKDNAGKIRPCKI
hsIL-5ra       K-----DTL-GRNIACWFPRTFILSKGRDWL-----SVLVNGSSKHSAIRPFDQL
mmIl-5ra       R-----DAL-NRNTACWFPRTFINSGFEQL-----AVHINGSSKRAAIKPFQDL
hsIL-13Ra2     Y-----IKADGQNIgCRFP--YLEASDYKDF-----YICVNGSSENKPIRSSYFT
mmIl-13ra2     Y-----LQHDEKNVGCKLS--NLDSSDYKDF-----FICVNGSSKLEPIRSSYTV
hsIL-2Rgc      S-----HYLFSEeiTSGCQLQKKEIHLYQTF-----VVQLQ--DPREPRRQATQM
mmIl-2rgc      S-----HYLFSKEITSGCQIQKEDIQLYQTF-----VVQLQ--DPQKQRRAVQK
dril-13ra2     Y-----IVSSNNERGCRFP--RQSLLEFSKF-----NMCVNGSSSTGSLRPAYFS
hsGMra         Y-----IQDSGTHVGCHLDN---LSGLTSRN-----YFLVNGTSREIGIQFFDSL
mmGmra         D-----PGD-DVITQCIAN---DLSLLGSEA-----YLvVTGRSGAGPVRFLDDV
hsIL-3Ra       YK-----TDAQGTRIGCRFDDISRLSSGSQSS-----HILVGRSAAFGIPCTDKF
mmIl-3ra       YHSLDVNTAGPAPHGGHEGCTLDLDTVLGSTPNSPDLVPQVTITVNGSGRAGPVPCMDNT
dril-2rgc.a    Y-----ETANGVNVACMLP---YKERTQRFN-----TLKTSLYRDDGSLVTEQE
dril-2rgc.b    Y-----ILEQNYTGCRIP---LKDQNLRFN-----KFIVTIYTEGKHTISKTF
huTSLPR        Y-----LLQEGHTSGCLLDAEQRDDILYFSIR-----NGTHPVFTAS
mmTslpr        Y-----FLSGAGVTSGCILPAARAGLLELALR-----DGGGAMVFKAR
drtslpr        -----PDRIVFNIS-----KTPYGVK
dril-13ra1     D-----DTMKMGCVIHNKRLKEINVSQ-----MFYLFNGTYNGTVVNNTFRD

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hsIL-13Ra1 VPLTSRVKPDPPHIKNSFSH-NDDLIVQWENPQ-NFISRCLFYEEVNNNSQTETH---NV
 mmIl-13ra1 VSLTSYVKPDPPHIKHLK-NGALLVQWKNPQ-NFRSRCLTYEEVNNNTQTDRH---NI
 hsIL-5ra FALHAIDQINPPLNVTAEIE-GTRLSIQWEKPVSAFPIHCFDYEVIHNTNRNG-----
 mmIl-5ra FSPLAIDQVNPPRNVTVEIE-SNSLYIQWEKPLSAFPDHCIFYELKIYNTKNG-----
 hsIL-13Ra2 FQLQNIVKPLPPVYLTFTRESSCEIKLWKSIPLGP IPARCFDYEIEIREDDTT-----
 mmIl-13ra2 FQLQNIVKPLPPEFLHISVENSIDIRMKWSTPGGPIPPRCYTYEIVIREDDIS-----
 hsIL-2Rgc LKLQNLVIPWAPENLTLHKLSESQLLELNWNNRF--LNH-CLEHLVQYRTDWDHS-----
 mmIl-2rgc LNLQNLVIPRAPENLTLNLSSESQLLELRWKS RH--IKERCLQYLVQYRSNRDRS-----
 dril-13ra2 IEIQNYVKPAAVSSLDVLET-DGWLKLWAPPSPGQVPEHCLDYEVESSTLMANGKE-LKQ
 hsGMRa LDTKKIERFNPPSNVTVRCN-TTHCLVRWKQPRYQKLSYLDYFQYQLDVHRKNTQPGTEN
 mmGmra VATKALERLGPDRDVTASCN-SSHCTVSWAPPSTWASLTARDFQFVQWQSAEPGS----
 hsIL-3Ra VVFSQIEILTPP-NMTAKCN-KTHSFMHWK MRS--HFNRKFRYELQIQKRMQP-----
 mmIl-3ra VDLQRAEVLAPP-TLTVECN-GSEAHARWVARN-RFHHGLLGYTLQVNVQSSRS-----
 dril-2rgc.a HMLKEYVKLNPPNLSVVEKKDAELWLYWNVTK--NDNCIESEVRYRTDQNN-----
 dril-2rgc.b DSLERNVLLNPPYNLSVMWNEHSDTSLYWNSSAPLRKTCIVYMVRNQKDP SQ-----
 huTSLPR RWMVYYLKPSSPKHVRFSWH-QDAVTVTCSDLS----YGDLLYEVQYRSFPDFT-----
 mmTslpr QRASAWLKPRPPWNVTLWTPDGDVTVSWPAHS----YLGLDYEVQHRESNDDDED-----
 drtslpr VIWRVANNADPQCFFNTEVQYKRQCEKDWERSH-----RIKLNQNEE-----
 dril-13ra1 ESAMQYVRLKQP-QLTVQRVGDLSLMTNADSLDEFEESCYKYNITYNECGKE-----

hsIL-13Ra1 FVYQEA KCENPEFERVENTSCFMVPGVLPDTLNTVRI RVKTNKLCYEDDKLWSNWS
 mmIl-13ra1 LEVEEDKQCNSESDRNMEGTSCFQLPGVLADAVYTVRVRVKTNKLCFDDNKLWSDWS
 hsIL-5ra -YLQIEKLMTNAFISIIDDL-----KYDVQVRAAVSSMCREAG-LWSEWS
 mmIl-5ra -HIQKEKLIANKFISKIDV-----TYSIQVRAAVSSPCRM PG-RWGEWS
 hsIL-13Ra2 --LVTATVENETYTLKTNET-----RQLCFVVRSKVNIYCSDDG-IWSEWS
 mmIl-13ra2 --WESATDKNDMKLKRANES-----EDLCFFVRCKVNIYCADDG-IWSEWS
 hsIL-2Rgc -WTEQSVDRHKFSLPSVDGQ-----KRYTFRVRSR FNPLCGSAQ-HWSEWS
 mmIl-2rgc -WTELIVNHEPRFSLPSVDEL-----KRYTFRVRSRYNPICGSSQ-QWSKWS
 dril-13ra2 TEILENLDLGTSYELPREAES-----KKTCFNLRSKVNM YCADGG-FWSDWS
 hsGMRa LLINVSGDLENRYNFP SSEPR-----AKHSVKIRAADVRIL-----NWSSWS
 mmGmra TPRKVLVVEETRLAFSPAPHG-----GHKVKVRAGDTRMK-----HWGEWS
 hsIL-3Ra ---VITEQVRDRTSFQLLNPG-----TYTVQIRARERVYE-----FLSAWS
 mmIl-3ra ---EPQEYNVSI PHFWVPNAG-----AISFRVKSRSSEVYPR-----KLSSWS
 dril-2rgc.a -WKDTPGVRTTYSLFPSPNK-----QYKFQVRARITSSCGQSK-FWSEWS
 dril-2rgc.b ---SLNVTDTSYSVSPVSN-----KLYVFQVRSTVADSCGSSD-FWSDWS
 huTSLPR ---EWQSKQENTCNVTIEGLD-----AEKCYSFVVRVKAMEDVYGPDTYPSDWS
 mmTslpr ---AWQTTSGPCCDLTVGGLDP-----ARCYDFRVRASPRAAHYGLEAQPSEWT
 drtslpr -----NHLNLSLSTK-----MNYDFRIRMKY--ECLEKD--WSNWT
 dril-13ra1 ---SRNFTEHISKSTKQFDQY-----CKYKARVQIHFSSNCGRG---FSELS

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