

hemoglobin_subunit_delta	MVHLTPPEEKTA V NALWGKV N .. VDAVGGEALG R I LVVY P W T QRF F	43
hemoglobin_subunit_beta	MVHLTPPEEKSA T LWGKV N .. VDEVGGEALG R I LVVY P W T QRF F	43
hemoglobin_subunit_gamma-2	MGHFTEEDEKATITS L WGKV N .. VEDAGGETLG R I LVVY P W T QRF F	43
hemoglobin_subunit_gamma-1	MGHFTEEDEKATITS L WGKV N .. VEDAGGETLG R I LVVY P W T QRF F	43
hemoglobin_subunit_epsilon	MVHFTAEKA V TSLW S KM.. VEEAGGEALG R I LVVY P W T QRF F	43
hemoglobin_subunit_alpha	MVLSPADKT V KA A GKV G AHAGE E GA A EL M RFLSF P T T KTY F	44
hemoglobin_subunit_theta-1	MALSAEDRAL V RAWL V KL G NSVGVY T E A RIT F LA P T T KTY F	44
hemoglobin_subunit_zeta	MSLT T KE R TI I IVSM W AK I ST Q AD T I G ET T LE R I L F LSH P QT T KTY F	44
hemoglobin_subunit_mu	MLS A SA Q ERA Q IA W DL A IGHEAQ F GA L LL R I FTV P ST T KVY F	43
cytoglobin	MEKVPGE M EIER R ER S E A ER K ER A Q W ARLY Y AN C D F G V AI L V P F P S T AKQY F	60
myoglobin	MGLSDGE W QL V LNW G K V EADIP G H O EV I R L K F G H P E T L E K	44
neuroglobin	MERPEP L IRQS W RAV S RSP L EH G T V L F AR R I LF A EP P D L LP F	42

hemoglobin_subunit_delta	ESFG..DLSSPD AVMGNPKVKAHGK KVLA GAF FSGLAHLDN..L	LKGTFQSQ SELHCDKLHV	99
hemoglobin_subunit_beta	ESFG..DLSTPDAVMGNPKVKAHGKVL GAF FSGLAHLDN..L	LKGTFATL SELHCDKLHV	99
hemoglobin_subunit_gamma-2	DSFG..NLSSASAIGMGNPKVKAHGKVL TSLGD AIKHLD..L	LKGTFQAQ SELHCDKLHV	99
hemoglobin_subunit_gamma-1	DSFG..NLSSASAIGMGNPKVKAHGKVL TSLGD ATKHLD..L	LKGTFQAQ SELHCDKLHV	99
hemoglobin_subunit_epsilon	DSFG..NLSSPSAILGNPKVKAHGKVL TSGFD AIKNMDN..L	LKPFAFKL SELHCDKLHV	99
hemoglobin_subunit_alpha	PHF..DLSH.....GSAQVKCHGKVKADALTNAAVHD...MPNALSALSDL	HAKHLR	94
hemoglobin_subunit_theta-1	SHL..DLSP.....GSSQVLRHGQKVADALS AVER LDD..L	PHALSA SHL HACQLRV	94
hemoglobin_subunit_zeta	PHF..DLHP.....GSAQLR HGS KVVAAGD AVKS IDDD..L	IGGALS KLSEL HYIIRLV	94
hemoglobin_subunit_mu	PHL..SACQ.....DATQLLSH GQR M L AAVGA A VQHVDN..L	R AAL SPLADLHALVLR	93
cytoglobin	SQFK..HMEDPELMERSPQLRK H ACRV M GLANTV V NLHD PDK V S V L ALVGKA H ALKHKV		119
myoglobin	DKFK.R H KSEDEMKA SELD KKH G ATV T ALGGIL K KKGH..HEAEIKPLAQSH T AKH K H		100
neuroglobin	QYNCRQFSSPEDCLLSS PEFLD H I RKVMLVIDA A VT N VEDLSS E EEYLAS G RKHR.AVGV		101

hemoglobin_subunit_delta	DPENFRLLGTVLCLARNFGKE FTPPQMQAAQYQKVVAGVANALAHKYH	147
hemoglobin_subunit_beta	DPENFRLLGTVLCLAHFFGKE FTPPVQQAAQYQKVVAGVANALAHKYH	147
hemoglobin_subunit_gamma-2	DPENFKLGGNVLTCLVLAHF GKEFTTPPEVQASWQKMTVGVASALSSRYH	147
hemoglobin_subunit_gamma-1	DPENFKLGGNVLTCLVLAHF GKEFTTPPEVQASWQKMTVAVASALSSRYH	147
hemoglobin_subunit_epsilon	DPENFKLGGNVMVII LATHFGKEFTPEVQAAQWKLVSAAIAALAHKYH	147
hemoglobin_subunit_alpha	DPVNFKLLSHCLLTVLAHLPAE FTPAVHASLDKFFLASVSTVLTSKYR	142
hemoglobin_subunit_theta-1	DPASPLQLGHCLLTVLARHPGD FSPALQASLDKFFLSHVISALVSEYR	142
hemoglobin_subunit_zeta	DPVNFKLLSHCLLTVLAARFPAD FPTAEAAHAWDKFLFSLVVSSVLTKEYR	142
hemoglobin_subunit_mu	DPANFPPLLICQCHVVLASHLQD EFTVQMQAAWDFKFLTGVAVVLTKEYR	141
cytoglobin	EPVYFKILSGVILEVVAEEFASD FPPPETORAWAKLRLGYIHSHTAAYKEGVWVQQVPNAT	179
myoglobin	PKVYIESECIIQVLSKHPGDF AGADAQAMGNALKALEFRKDMSNAYKELGFOQ	154
neuroglobin	KLSSFSTVGESLLYMLEKCLCPA FTPATRAWSQLYGAVVQAMSRGWGDGE	151

hemoglobin_subunit_delta	.....	147
hemoglobin_subunit_beta	.....	147
hemoglobin_subunit_gamma-2	.....	147
hemoglobin_subunit_gamma-1	.....	147
hemoglobin_subunit_epsilon	.....	147
hemoglobin_subunit_alpha	.....	142
hemoglobin_subunit_theta-1	.....	142
hemoglobin_subunit_zeta	.....	142
hemoglobin_subunit_mu	.....	141
cytoglobin	TPPATLPSSGP	198
myoglobin	.....	154
neuroglobin	.....	151

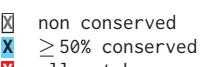


Figure 1: Protein MSA with Similarity Highlighting