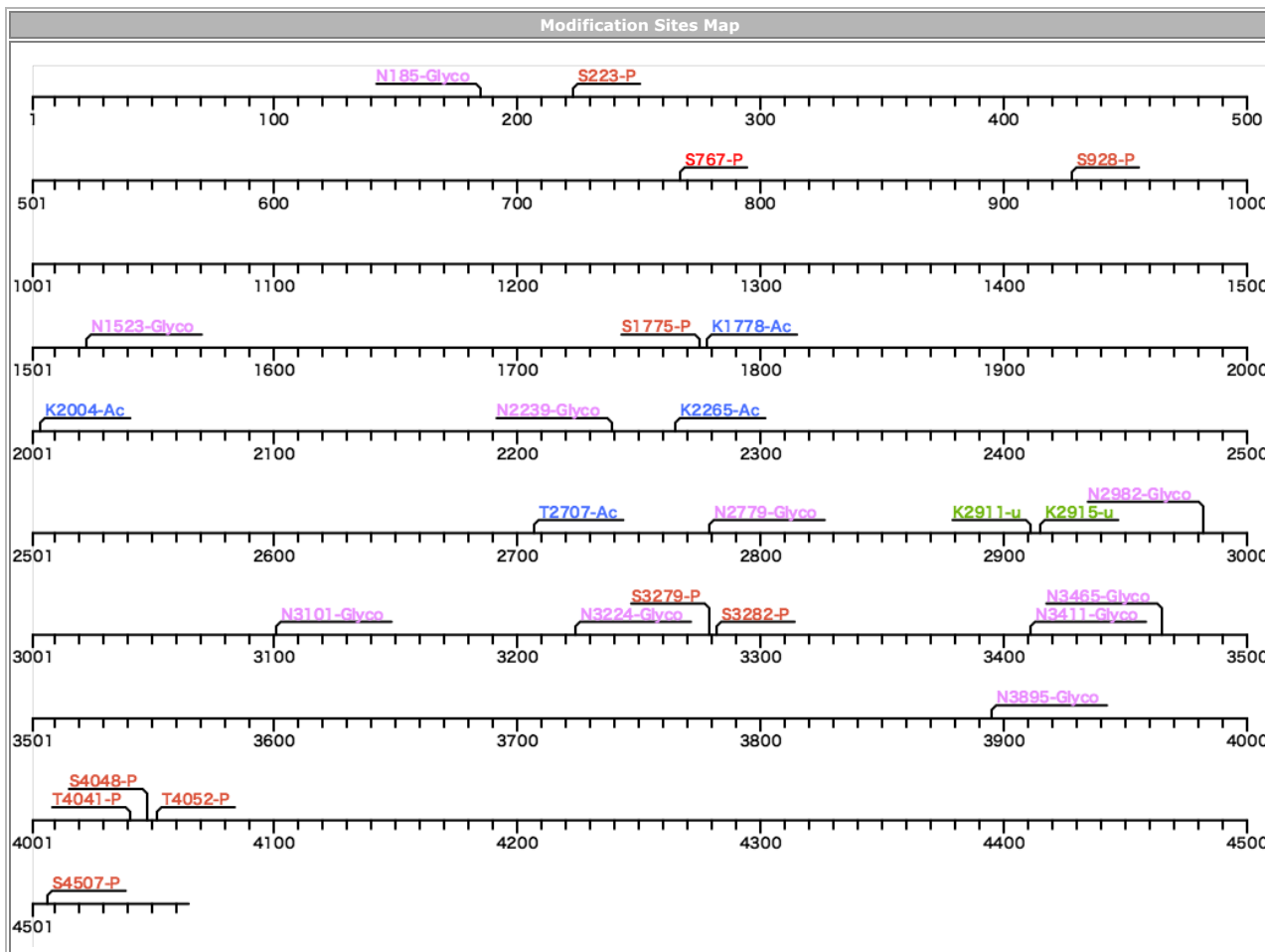


ID	Accession	GeneName	Chr.No.	Description
APOB_HUMAN	P04114	APOB	2p24.1 21224301...21266945	Apolipoprotein B-100



Click a modification site to display information in detail.

Site no	Amino acid	Type	Division	Detail
767	S	P	Lab	100626-nagata-pRMUGS-10mg.mgf[F015005]
767	S	P	Lab	100626-nagata-pMCAS-10mg.mgf[F014995]

Protein Sequence

MDPPRPALLA LLALPALLL LLAGARAEIE MLENVSLVCP KDATRFKHLR KYTYNYEAE SSGVPGTADS RSATRINCKV ELEVPLQCSF ILKTSQCTLK EVYGFNPEGK ALLKK TKNSE EFAAAMSRYE LKLAIEGKQ VFLYPEKDEP TYILNIKRG I SALLVPPET EEAKQVFLD TVYGN CSTHF TVKTRKGNVA TEISTERDLG QCDRFKPIRT GI SPLALIKG M TRPLSTLIS SSQCQYTL D AKRKHVAEAI CKEQHLFLPF SYKNKYGMVA QVTQTLKLED TPKINSRFFG EGTKKMGLAF ESTKSTSPPK QAEAVLKTQL ELKKLITISEQ NIQRA NLFNK LVTELRLGSD EAVTSLPLQL IEVSSPITLQ ALVQCQPQC STHILQWLKR VHANPLLDV VTYLVALIPE PSAQLREIF NMARDQRSRA TLYALSHAVN NYHKTNPSTGT QELLDIANYL MEIQDQDCTG DEDYTYLILR VIGNMGQTM E QLTPELKSSI LKCVQSTKPS LMIQKAAIQA LKRMPEKDKD QEVLLQTFLD DASPQDKRLA AYLMMLRSPS QAD INKIVQI LPWEQNEQVK NFAVSHIANI LNSEELDIQD LKLVKEALK ESQPLTVMDF RKFSRNYQLY KSVSLPSLDP ASAKIEGNLI FDPNNYLPKE SMLKTTLTAF GFASADLIE I GLEGKGFPT LEALFGKQGF PDSVNKALY WVNGQVPDGV SKVLVDHFGY TKDDKHEQDM VNGIMLSVEK LIKDLK SKEV PEARAYLRIL GEELGFASLH DLQLLGLKLL M GARTLQGP QMIGEVIKRG SKNDFFLHYI FMENAFELPT GAGLQLQISS SGVIAPGAKA GVKLEVANMQ AELVAKPSVS VEFVTNMGII IPDFARSGVQ MNTNFFHESG LEAH VALKAG KLFKFIIP SPK RPVKLLSGGN TLHVLSTTTK EVIPLIENR QSWSVCKQVF PGLNYCTSGA YSNASSTDSA SYPLTGDTR LELELRPTGE IEQYSVSATY ELQREDRAL V DTLKFVTQAE GAKQTEATMT FKYNRQSM TL SSEVQIPDFD VDLGTILRVN DESTEGKTSY RLTDLIQNKK ITEVALMGHL SCDTKEERKI KGVISIPRLQ AEARESEILAH WS PAKLLLMQ DSSATAYGST VSKRVAWHYD EEKIEFEWNT GTNVDTKKMT SNFPVDLSY PKSLHMYANR LLDHRVPQTD MTRFRVSGSKL IVAMSSWLQK ASGSLPYTQT LQ DHLNLSKE FNLQNMGLPD FHIPENFLK SDGRVKYTLN KNSLKI EPL PFGGKSSRD L KMLETVRTPA LHFKSVGFHL PSREFQVPTF TIPKLYQLQV PLLGVLDLST NVYSNLY NWS ASYSGGNTST DHFSLRARYH MKADSVVDLL SYNQGSGET TYDHKNTFTL SYDGSRLHKF LDSNIKFVSHV EKLGNPVS K GLLIFDASS WGPQMSASVH LDSKHKQ HLF VKEVKIDGQF RVSSFYAKGT YGLSCQRDPN TGRNGESNL RFNSSYLQGT NQITGRYEDG TSLTSTSD L QSGIINKTAS LKYENYELTL KSDTNGKYKN FATS NKMDM T FSKQALLRS EQADYESLR FFSLLSGLN SHGLELNADI LGTDKINSGA HKATLRIGQD GISTSATTNL KCSSLVLENE LNAELGSGA SMLKLTNNGR REHNAKFLSD GK AALTLSL GSAYQAMILG VSKNIFNFK VSQEGKLSN DMMGSAEAM FDHTNSL NIA GLSLDFSSK L DNIY S D K F Y K Q T V N L Q L Q P Y S L V T L N S D L K Y N A L D L T N N G L R L E P L K L H V A G N L K G A Y Q N N E I K H I Y A I S S A A L S A S Y K A D T V A K V Q G V E F S H R L N T D I A G L A S A I D M S T N Y S D S L H F S N V F R S V M A P F T M T I D A H T N G N K L A L W G E H T G Q L Y S K F L L K A E P L A F T F S H D Y K G S T S H H L V S R K S I S A A L E H K V S A L L T P A E Q T G T W K L K T Q F N N E Y S Q D L D A Y N T K D K I G V E L T G R T L A D L T L L D S P I K V P L L L S E P I N I I D A L E M R D A V E K P Q E F T I V A F V K Y D K N Q D V H S I N L P F F E T L Q E Y F E R N R Q T I I V L E N V Q R N L K H I N I D Q F V R K Y R A A L G K L P Q Q A N D Y L N S F N W E R Q V S H A K E L T A L T K K Y R I T E N D I Q I A L D D A K I N F N E K L S Q L Q T Y M I Q F D Q Y I K D S Y D L H D L K I A I A N I D E I I E K L K S L D E H Y H I R V N L V K T I H D L H L F I E N I D F N K S G S S T A S W I Q N V D T K Y Q I R I Q I Q E K L Q L K L R H I Q N I D I Q H L A G L K Q H I E A I D V R V L L D Q L G T T I S F E R I N D I L E H V K H F V I N I L I G D F E V A E K I N A F R A K V H E L I E R Y E V D Q Q I Q V L M D K L V E L A H Q Y K L K E T I Q K L S N V L Q Q V K I K D Y F E K L V G F I D D A V K L N E L S F K T F I E D V N K F L D M L I K K L K S F D Y H Q F V D E T N D K I R E V T Q R L N G E I Q A E L P Q K A E A L K L F L E E T K A T V A Y L E S L Q D T K I T L I I N W L Q E A L S S A S L A H M K A K F R E T L E D T R D R M Y Q M D I Q Q E L Q R Y L S L V G Q V Y S T L V T Y I S D W W T L A A K N L T D F A E Q Y S I Q D W A K R M K A L V E Q G F T V P E I K T I L G T M P A F E V S L Q A L Q K A T F Q T P D F I V P L T D L R I P S V Q I N F K D L K N I K I P S R F S T P E F T I L N T F H I P S F T I D F V E M K V K I I R T I D Q M L N S E L Q W P V P D I Y L R D L K V E D I P L A R I T L P D F R L P E I A I P E F I I P T L N L N D F Q V P D L H I P E F Q L P H I S H T I E V P T F G K L Y S I L K I Q S P L F T L D A N A D I G N G T T S A N E A G I A S I T A K E G S K L E V L N F D F Q A N A Q L S N P K I N P L A K E S V K F S S K Y L R T E H G S E M L F F G N A I E G K S N T V A S L H T E K N T L E L S N G I V K I N N Q L T L D S N T K Y F H K L N I P K L D F S S Q A D L R N E I K T L L K A G H I A W T S S G K G S W K W A C P R F S D E G T H E S Q I S F T I E G P L T S F G L S N K I N S K H L R V N Q N L V Y E S G S L N F S K L E I Q S Q V D S Q H V G H S V L T A K G M A L F G E G K A E F T G R H D A H L N G K V I G T L K N S L F F S A Q P F E I T A S T N N E G N L K V R F P R L R T G K I D F L N N Y A L F L

SP SAQQASWQVS ARFNQYKYNQ N F S A G N N E N I M E A H V G I N G E A N L D F L N I P L T I P E M R L P Y T I I T P P L K D F S L W E K T G L K E F L K T T K Q S F D L S V K A Q Y K K N K H R H S I T N P L A
V L C E F I S Q S I K S F D R H F E K N R N N A L D F V T K S Y N E T K I K F D K Y K A E K S H D E L P R T F Q I P G Y T V P V V N V E V S P F T I E M S A F G Y V F P K A V S M P S F S I L G S D V R V P S Y T L I L P S L E L P V L
H V P R N L K L S L P D F K E L C T I S H I F I P A M G N I T Y D F S F K S S V I T L N T N A E L F N Q S D I V A H L L S S S S V I D A L Q Y K L E G T T R L T R K R G L K L A T A L S L S N K F V E G S H N S T V S L T T K N M E
V S V A T T T K A Q I P I L R M N F K Q E L N G N T K S K P T V S S S M E F K Y D F N S S M L Y S T A K G A V D H K L S L E S L T S Y F S I E S S T K G D V K G S V L S R E Y S G T I A S E A N T Y L N S K S T R S S V K L Q G T
S K I D D I W N L E V K E N F A G E A T L Q R I Y S L W E H S T K N H L Q L E G L F F T N G E H T S K A T L E L S P W Q M S A L V Q V H A S Q P S S F H D F P D L G Q E V A L N A N T K N Q K I R W K N E V R I H S G S F Q S
Q V E L S N D Q E K A H L D I A G S L E G H L R F L K N I I L P V Y D K S L W D F L K L D V T T S I G R R Q H L R V S T A F V Y T K N P N G Y S F S I P V K V L A D K F I I P G L K L N D L N S V L V M P T F H V P F T D L Q V P S
C K L D F R E I Q I Y K K L R T S S F A L N L P T L P E V K F P E V D V L T K Y S Q P E D S L I P F F E I T V P E S Q L T V S Q F T L P K S V S D G I A A L D L N A V A N K I A D F E L P T I I V P E Q T I E I P S I K F S V P A G I V I P S F
Q A L T A R F E V D S P V Y N A T W S A S L K N K A D Y V E T V L D S T C S S T V Q F L E Y E L N V L G T H K I E D G T L A S K T K G T F A H R D F S A E Y E E D G K Y E G L Q E W E G K A H L N I K S P A F T D L H L R Y Q K
D K K G I S T S A A S P A V G T V G M D M E D E D D D F S K W N F Y S P Q S S P D K K L T I F K T E L R V R E S D E E T Q I K V N W E E E A A S G L L T S L K D N V P K A T G V L Y D Y V N K Y H W E H T G L T L R E V S S K
L R R N L Q N N A E W V Y Q G A I R Q I D D I D V R F Q K A A S G T T G T Y Q E W K D K A Q N L Y Q E L L T Q E G Q A S F Q G L K D N V F D G L V R V T Q E F H M K V K H L I D S L I D F L N F P R F Q F P G K P G I Y T R E E
L C T M F I R E V G T V L S Q V Y S K V H N G S E I L F S Y F Q D L V I T L P F E L R K H K L I D V I S M Y R E L L K D L S K E A Q E V F K A I Q S L K T T E V L R N L Q D L L Q F I F Q L I E D N I K Q L K E M K F T Y L I N Y I Q D E
I N T I F S D Y I P Y V F K L L K E N L C L N L H K F N E F I Q N E L Q E A S Q E L Q Q I H Q Y I M A L R E E Y F D P S I V G W T V K Y Y E L E E K I V S L I K N L L V A L K D F H S E Y I V S A S N F T S Q L S S Q V E Q F L H R N I Q
E Y L S I L T D P D G K G K E K I A E L S A T A Q E I I K S Q A I A T K K I I S D Y H Q Q F R Y K L Q D F S D Q L S D Y Y E K F I A E S K R L I D L S I Q N Y H T F L I Y I T E L L K K L Q S T T V M N P Y M K L A P G E L T I I

Backcolor of amino acid : Yellow -> site of modification, gray -> in front of processing