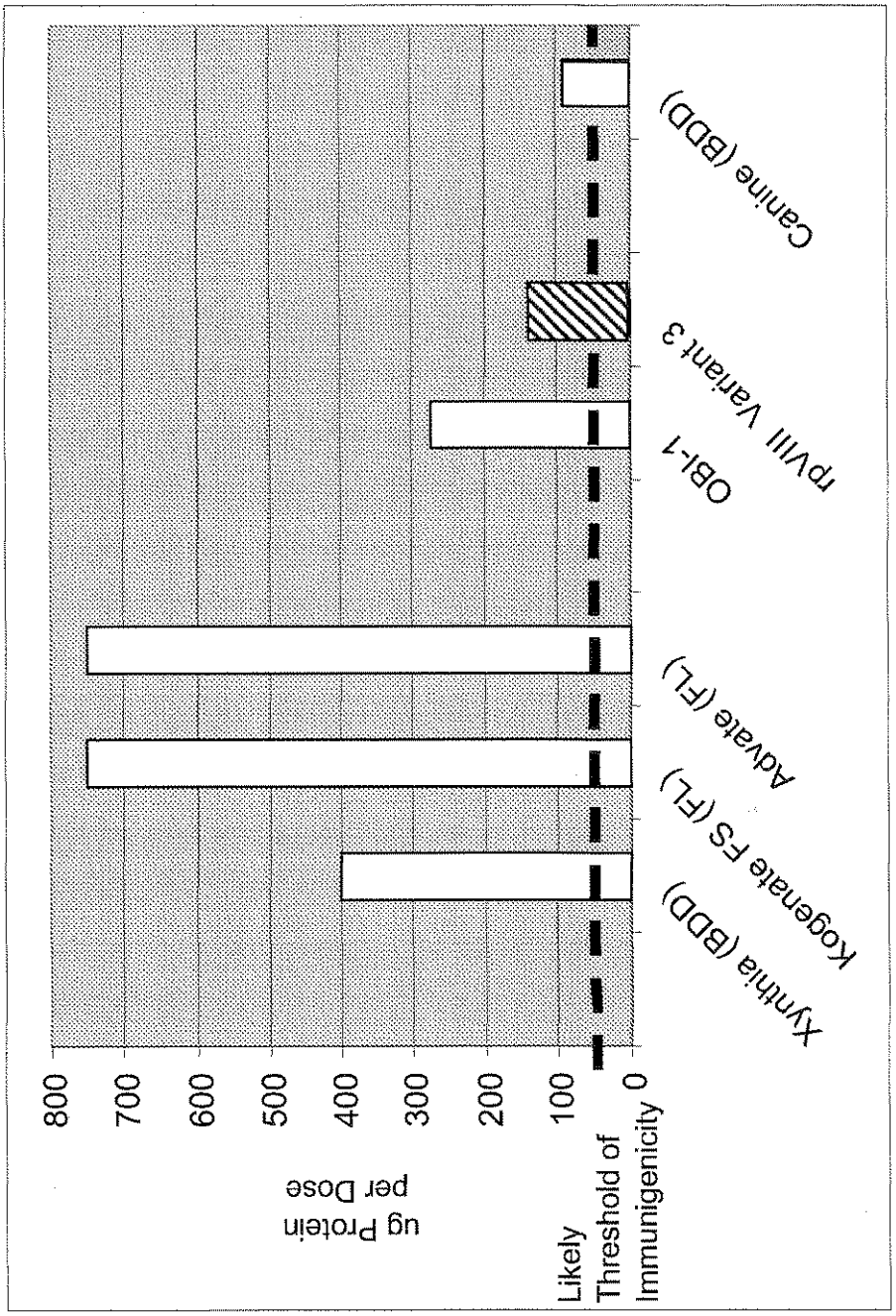

800
700
600
500
400
300
200
100
0
ug Protein per Dose
Likely Threshold of Immunigenicity
Xyntha (BDD)
Kogenate FS (FL)
Advate (FL)
Obi-1
rFVIII Variant 3
Canine (BDD)

Fig. 1

```
          1                                                   50
HUMFVIII  ATRRYYLGAV ELSWDYMQSD .LGELPVDAR FPPRVPKSFP FNTSVVYKKT
PIGFVIII  AIRRYYLGAV ELSWDYRQSE LLRELHVDTR FPATAPGALP LGPSVLYKKT
MURFVIII  AIRRYYLGAV ELSWNYIQSD LLSVLHTDSR FLPRMSTSFP FNTSIMYKKT
CANFVIII  ATRKYYLGAV ELSWDYMQSD LLSALHADTS FSSRVPGSLP LTTSVTYRKT

          51                                                  100
HUMFVIII  LFVEFTDHLF NIAKPRPPWM GLLGPTIQAE VYDTVVITLK NMASHPVSLH
PIGFVIII  VFVEFTDQLF SVARPRPPWM GLLGPTIQAE VYDTVVVTLK NMASHPVSLH
MURFVIII  VFVEYKDQLF NIAKPRPPWM GLLGPTIWTE VHDTVVITLK NMASHPVSLH
CANFVIII  VFVEFTDDLF NIAKPRPPWM GLLGPTIQAE VYDTVVIVLK NMASHPVSLH

          101                                                 150
HUMFVIII  AVGVSYWKAS EGAEYDDQTS QREKEDDKVF PGGSHTYVWQ VLKENGPMAS
PIGFVIII  AVGVSFWKSS EGAEYEDHTS QREKEDDKVL PGKSQTYVWQ VLKENGPTAS
MURFVIII  AVGVSYWKAS EGDEYEDQTS QMEKEDDKVF PGESHTYVWQ VLKENGPMAS
CANFVIII  AVGVSYWKAS EGAEYEDQTS QKEKEDDNVI PGESHTYVWQ VLKENGPMAS

          151                                                 200
HUMFVIII  DPLCLTYSYL SHVDLVKDLN SGLIGALLVC REGSLAKEKT QTLHKFILLF
PIGFVIII  DPPCLTYSYL SHVDLVKDLN SGLIGALLVC REGSLTRERT QNLHEFVLLF
MURFVIII  DPPCLTYSYM SHVDLVKDLN SGLIGALLVC KEGSLSKERT QMLYQFVLLF
CANFVIII  DPPCLTYSYF SHVDLVKDLN SGLIGALLVC KEGSLAKERT QTLQEFVLLF

          201                                                 250
HUMFVIII  AVFDEGKSWH SETKNSLMQD RDAASARAWP KMHTVNGYVN RSLPGLIGCH
PIGFVIII  AVFDEGKSWH SARNDSWTRA MDPAPARAQP AMHTVNGYVN RSLPGLIGCH
MURFVIII  AVFDEGKSWH SETNDSYTQS MDSASARDWP KMHTVNGYVN RSLPGLIGCH
CANFVIII  AVFDEGKSWH SETNASLTQ. .....AEAQH ELHTINGYVN RSLPGLTVCH

          251                                                 300
HUMFVIII  RKSVYWHVIG MGTTPEVHSI FLEGHTFLVR NHRQASLEIS PITFLTAQTL
PIGFVIII  KKSVYWHVIG MGTSPEVHSI FLEGHTFLVR HHRQASLEIS PLTFLTAQTF
MURFVIII  RKSVYWHVIG MGTTPEIHSI FLEGHTFFVR NHRQASLEIS PITFLTAQTL
CANFVIII  KRSVYWHVIG MGTTPEVHSI FLEGHTFLVR NHRQASLEIS PITFLTAQTF

          301                                                 350
HUMFVIII  LMDLGQFLLF CHISSHQHDG MEAYVKVDSC PEEPQLRMK. NNEEAEDYDD
PIGFVIII  LMDLGQFLLF CHISSHHHGG MEAHVRVESC AEEPQLRRK. ADEE.EDYDD
MURFVIII  LIDLGQFLLF CHISSHKHDG MEAYVKVDSC PEESQWQKKN NNEEMEDYDD
CANFVIII  LMDLGQFLLF CHIPSHQHDG MEAYVKVDSC PEEPQLRMK. NNED.KDYDD

          351                                                 400
HUMFVIII  DLTDSEMDVV RFDDDNSPSF IQIRSVAKKH PKTWVHYIAA EEEDWDYAPL
PIGFVIII  NLYDSDMDVV RLDGDDVSPF IQIRSVAKKH PKTWVHYISA EEEDWDYAPA
MURFVIII  DLY.SEMDMF TLDYD.SSPF IQIRSVAKKY PKTWIHYISA EEEDWDYAPS
CANFVIII  GLYDSDMDVV SFDDDSSSPF IQIRSVAKKH PKTWVHYIAA EEEDWDYAPS

          401                                                 450
HUMFVIII  VLAPDDRSYK SQYLNNGPQR IGRKYKKVRF MAYTDETFKT REAIQHESGI
PIGFVIII  VPSPSDRSYK SLYLNSGPQR IGRKYKKARF VAYTDVTFKT RKAIPYESGI
MURFVIII  VPTSDNGSYK SQYLSNGPHR IGRKYKKVRF IAYTDETFKT RETIQHESGL
CANFVIII  GPTPNDRSHK NLYLNNGPQR IGKKYKKVRF VAYTDETFKT REAIQYESGI

          451                                                 500
HUMFVIII  LGPLLYGEVG DTLLIIFKNQ ASRPYNIYPH GITDVRPLYS RRLPKGVKHL
PIGFVIII  LGPLLYGEVG DTLLIIFKNK ASRPYNIYPH GITDVSALHP GRLLKGWKHL
MURFVIII  LGPLLYGEVG DTLLIIFKNQ ASRPYNIYPH GITDVSPLHA RRLPRGIKHV
CANFVIII  LGPLLYGEVG DTLLIIFKNQ ASRPYNIYPH GINYVTPLHT GRLPKGVKHL

          501                                                 550
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Fig. 2a

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HUMFVIII  KDFPILPGEI FKYKWTVTVE DGPTKSDPRC LTRYYSSFVN MERDLASGLI
PIGFVIII  KDMPILPGET FKYKWTVTVE DGPTKSDPRC LTRYYSSSIN LEKDLASGLI
MURFVIII  KDLPIHPGEI FKYKWTVTVE DGPTKSDPRC LTRYYSSFIN PERDLASGLI
CANFVIII  KDMPILPGEI FKYKWTVTVE DGPTKSDPRC LTRYYSSFIN LERDLASGLI

          551                                                  600
HUMFVIII  GPLLICYKES VDQRGNQIMS DKRNVILFSV FDENRSWYLT ENIQRFLPNP
PIGFVIII  GPLLICYKES VDQRGNQMMS DKRNVILFSV FDENQSWYLA ENIQRFLPNP
MURFVIII  GPLLICYKES VDQRGNQMMS DKRNVILFSI FDENQSWYIT ENMQRFLPNA
CANFVIII  GPLLICYKES VDQRGNQMMS DKRNVILFSV FDENRSWYLT ENMQRFLPNA

          601                                                  650
HUMFVIII  AGVQLEDPEF QASNIMHSIN GYVFDSLQLS VCLHEVAYWY ILSIGAQTDF
PIGFVIII  DGLQPQDPEF QASNIMHSIN GYVFDSLQLS VCLHEVAYWY ILSVGAQTDF
MURFVIII  AKTQPQDPGF QASNIMHSIN GYVFDSLELT VCLHEVAYWH ILSVGAQTDF
CANFVIII  DVVQPHDPEF QLSNIMHSIN GYVFDNLQLS VCLHEVAYWY ILSVGAQTDF

          651                                                  700
HUMFVIII  LSVFFSGYTF KHKMVYEDTL TLFPFSGETV FMSMENPGLW ILGCHNSDFR
PIGFVIII  LSVFFSGYTF KHKMVYEDTL TLFPFSGETV FMSMENPGLW VLGCHNSDLR
MURFVIII  LSIFFSGYTF KHKMVYEDTL TLFPFSGETV FMSMENPGLW VLGCHNSDFR
CANFVIII  LSVFFSGYTF KHKMVYEDTL TLFPFSGETV FMSMENPGLW VLGCHNSDFR

          701                                                  750
HUMFVIII  NRGMTALLKV SSCDKNTGDY YEDSYEDISA YLLSKNNAIE PRSFSQNSRH
PIGFVIII  NRGMTALLKV YSCDRDIGDY YDNTYEDIPG FLLSGKNVIE PRSFAQNSRP
MURFVIII  KRGMTALLKV SSCDKSTSDY YEEIYEDIPT QLVNENNVID PRSFFQNTNH
CANFVIII  NRGMTALLKV SSCNRNIDDY YEDTYEDIPT PLLNENNVIK PRSFSQNSRH

          751                                                  800
HUMFVIII  FSIRQKQFNA TTIPENDIEK TDPWFAHRTP MPKIQNVSSS DLLMLLRQS.
PIGFVIII  FSASQKQFQT ITSPEDDVE. LDPQSGERTQ ALEELSVPSG DGSMLLGQN.
MURFVIII  FNIRKKKFKD STIPKNDMEK IEPQFEEIAE MLKVQSVSVS DMLMLLGQSH
CANFVIII  FSIKEKQLKA TTTPENDIEK IDLQSGERTQ LIKAQSVSSS DLLMLLGQN.

          801                                                  850
HUMFVIII  PTPHGLSLSD LQEAKYETFS DDPSPGAIDS NNSLSEMTHF RPQLHHSGDM
PIGFVIII  PAPHGSSSSD LQEARNE..A DDYLPGARER NTAPSAAARL RPELHHSAER
MURFVIII  PTPHGLFLSD GQEAIYEAIH DDHSPNAIDS NEGPSKVTQL RPESHHSEKI
CANFVIII  PTPRGLFLSD LREA..TDRA DDHSRGAIER NKGPPEVASL RPELRHSEDR

          851                                                  900
HUMFVIII  VFTPESGLQL RLNEKLGTTA ATELKKLDFK VSSTSNNLI. .STIPSDNLA
PIGFVIII  VLTPEPE... .......... .KELKKLDSK MSSSSDLLKT SPTIPSDTLS
MURFVIII  VFTPQPGLQL RSNKSLETTI EVKWKKLGLQ VSSLPSNLMT .TTILSDNLK
CANFVIII  EFTPEPELQL RLNENLGTNT TVELKKLDLK ISSSSDSLMT SPTIPSDKLA

          901                                                  950
HUMFVIII  AGTDNTSSLG PPSMPVHYDS QLDTTLFGKK SSPLTESGGP LSLSEENNDS
PIGFVIII  AETERTHSLG PPHPQVNFRS QLGAIVLGKN SSHFIGAGVP LGSTEED...
MURFVIII  ATFEKTDSSG FPDMPVHSSS KLSTTAFGKK AYSLVGSHVP LNASEENSDS
CANFVIII  AATEKTGSLG PPNMSVHFNS HLGTIVFGNN SSHLIQSGVP LELSEEDNDS

          951                                                 1000
HUMFVIII  KLLESGLMNS QESSWGKNVS STESGRLFKG KRAHGPALLT KDNALFKVSI
PIGFVIII  .......... HESSLGENVS PVESDGIFEK ERAHGPASLT KDDVLFKVNI
MURFVIII  NILDSTLMYS QESLPRDNIL SIENDRLLRE KRFHGIALLT KDNTLFKDNV
CANFVIII  KLLEAPLMNI QESSLRENVL SMESNRLFKE ERIRGPASLI KDNALFKVNI
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Fig. 2b

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          1001                                                1050
HUMFVIII  SLLKTNKTSN NSATNRKTHI DGPSLLIENS PSVWQNI.LE SDTEFKKVTP
PIGFVIII  SLVKTNKARV YLKTNRKIHI DDAALLTENR ASA..... ..........
MURFVIII  SLMKTNKTYN HSTTNEKLHT ESPT.SIENS TTDLQDAILK VNSEIQEVTA
CANFVIII  SSVKTNRAPV NLTTNRKTRV AIPTLLIENS TSVWQDIMLE RNTEFKEVTS

          1051                                                1100
HUMFVIII  LIHDRMLMDK NATALRLNHM SNKTTSSKNM EMVQQKKEGP IPPDAQNPDM
PIGFVIII  .....TFMDK NTTASGLNHV SN..... ..........  ..........
MURFVIII  LIHDGTLLGK NSTYLRLNHM LNRTTSTKNK DIFHRKDEDP IPQDEENTIM
CANFVIII  LIHNETFMDR NTTALGLNHV SNKTTLSKNV EMAHQKKEDP VPLRAENPDL

          1101                                                1150
HUMFVIII  SFFKMLFLPE SARWIQRTHG KNSLNSGQGP SPKQLVSLGP EKSVEGQNFL
PIGFVIII  .......... ...WIKGPLG KNPLSSERGP SPELLTSSGS GKSVKGQSSG
MURFVIII  PFSKMLFLSE SSNWFKKTNG NNSLNSEQEH SPKQLVYLMF KKYVKNQSFL
CANFVIII  SSSKIPFLPD WI....KTHG KNSLSSEQRP SPKQLTSLGS EKSVKDQNFL

          1151                                                1200
HUMFVIII  SEKNKVVVGK GEFTKDVGLK EMVFPSSRNL FLTNLDNLHE NNTHNQEKKI
PIGFVIII  QGRIRVAVEE EELSKG...K EMMLPNSELT FLTNSADVQG NDTHSQGKKS
MURFVIII  SEKNKVTVEQ DGFTKNIGLK DMAFPHNMSI FLTTLSNVHE NGRHNQEKNI
CANFVIII  SE.EKVVVGE DEFTKDTELQ E.IFPNNKSI FFANLANVQE NDTYNQEKKS

          1201                                                1250
HUMFVIII  QEEIEKKETL IQENVVLPQI HTVTGTKNFM KNLFLLSTRQ NVEGSYDGAY
PIGFVIII  REEMERREKL VQEKVDLPQV YTATGTKNFL RNIFHQSTEP SVEGFDGGSH
MURFVIII  QEEIE.KEAL IEEKVVLPQV HEATGSKNFL KDILILGTRQ NISLYE..VH
CANFVIII  PEEIERKEKL TQENVALPQA HTMIGTKNFL KNLFLLSTKQ NVAGLEEQPY

          1251                                                1300
HUMFVIII  APVLQDFRSL NDSTNRTKKH TAHFSKKG.. EEENLEGLGN QTKQIVEKYA
PIGFVIII  APVPQDSRSL NDSAERAETH IAHFSAIR.. EEAPLEAPGN RT........
MURFVIII  VPVLQNITSI NNSTNTVQIH MEHFFKRRKD KETNSEGLVN KTREMVKNY.
CANFVIII  TPILQDTRSL NDSPHSEGIH MANFSKIR.. EEANLEGLGN QTNQMVERFP

          1301                                                1350
HUMFVIII  CTTRISPNTS QQNFVTQRSK RALKQFRLPL EETELEKRII VDDTSTQWSK
PIGFVIII  .......GPG PRSAVPRRVK QSLKQIRLPL EEIKPERGVV LNATSTRWS.
MURFVIII  ........PS QKNITTQRSK RALGQFRL.. .......... ....STQWLK
CANFVIII  STTRMSSNAS QH.VITQRGK RSLKQPRLSQ GEIKFERKVI ANDTSTQWSK

          1351                                                1400
HUMFVIII  NMKHLTPSTL TQIDYNEKEK GAITQSPLSD CLTRSHSIPQ ANRSPLPIAK
PIGFVIII  .......... .......... .......... .......... ..........
MURFVIII  TINCSTQCII KQIDHSKEMK KFITKSSLSD SSVIK.STTQ TNSSDSHIVK
CANFVIII  NMNYLAQGTL TQIEYNEKEK RAITQSPLSD CSMRNHVTIQ MNDSALPVAK

          1401                                                1450
HUMFVIII  VSSFPSIRPI YLTRVLFQDN SSHLPAAS.. ..YRKKDSGV QESSHFLQGA
PIGFVIII  .......... .......... .......... .......... .ESSPILQGA
MURFVIII  TSAFP...PI DLKRSPFQNK FSHVQASSYI YDFKTKSSRI QESNNFLKET
CANFVIII  ESASPSVRHT DLTKIPSQHN SSHLPASACN YTFRERTSGV QEGSHFLQEA

          1451                                                1500
HUMFVIII  KKNNLSLAIL TLEMTGDQRE VGSLGTSATN SVTYKKVENT VLPKPDLPKT
PIGFVIII  KRNNLSLPFL TLEMAGGQGK ISALGKSAAG PLASGKLEKA VLSSAGLSEA
MURFVIII  KINNPSLAIL PWNMFIDQGK FTSPGKSNTN SVTYKKRENI IFLKPTLPEE
CANFVIII  KRNNLSLAFV TLGITEGQGK FSSLGKSATN QPMYKKLENT VLLQPGLSET

          1501                                                1550
```

Fig. 2c

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HUMFVIII  SGKVELLPKV HIYQKDLFPT ETSNGSPGHL DLVEGSLLQG TEGAIKWNEA
PIGFVIII  SGKAEFLPKV RVHREDLLPQ KTSNVSCAHG DLGQEIFLQK TRGPVNLNKV
MURFVIII  SGKIELLPQV SIQEEEILPT ETSHGSPGHL NLMKEVFLQK IQGPTKWNKA
CANFVIII  SDKVELLSQV HVDQEDSFPT KTSNDSPGHL DLMGKIFLQK TQGPVKMNKT

          1551                                              1600
HUMFVIII  NRPGKVPFLR VATESSAKTP SKLLDPLAWD NHYGTQIPKE EWKSQEKSPE
PIGFVIII  NRPG..... .......RTP SKLLGPPM.. .........PK EWESLEKSPK
MURFVIII  KRHGES..IK GKTESSKNTR SKLLNHHAWD YHYAAQIPKD MWKSKEKSPE
CANFVIII  NSPGKVPFLK WATESSEKIP SKLLGVLAWD NHYDTQIPSE EWKSQKKSQT

          1601                                              1650
HUMFVIII  KTAFKKKDTI .LSLNACESN HAIAAINEGQ NKPEIEVTWA KQGRTERLC$
PIGFVIII  STALRTKDII SLPLDRHESN HSIAAKNEGQ AETQREAAWT KQGGPGRLC$
MURFVIII  IISIKQEDTI .LSLRPHGNS HSIGA.NEKQ NWPQRETTWV KQGQTQRTC$
CANFVIII  NTAFKRKDTI .LPLGPCENN DSTAAINEGQ DKPQREAMWA KQGEPGRLC$

          1651                                              1700
HUMFVIII  QNPPVLKRHQ REITRTTLQS DQEEIDYDDT ISVEMKKEDF DIYDEDENQS
PIGFVIII  PKPPVLKRHQ RDISLPTFQP EEDKMDYDDI FSTETKGEDF DIYGEDENQD
MURFVIII  QIPPVLKRHQ RELS..AFQS EQEATDYDDA ITIETI.EDF DIYSEDIKQG
CANFVIII  QNPPVSKHHQ REITVTTLQP EEDKFEYDDT FSIEMKREDF DIYGDYENQG

          1701                                              1750
HUMFVIII  PRSFQKKTRH YFIAAVERLW DYGMSSSPHV LRNRAQSGSV PQFKKVVFQE
PIGFVIII  PRSFQKRTRH YFIAAVEQLW DYGMSESPRA LRNRAQNGEV PRFKKVVFRE
MURFVIII  PRSFQQKTRH YFIAAVERLW DYGMSTS.HV LRNRYQSDNV PQFKKVVFQE
CANFVIII  LRSFQKKTRH YFIAAVERLW DYGMSRSPHI LRNRAQSGDV QQFKKVVFQE

          1751                                              1800
HUMFVIII  FTDGSFTQPL YRGELNEHLG LLGPYIRAEV EDNIMVTFRN QASRPYSFYS
PIGFVIII  FADGSFTQPS YRGELNKHLG LLGPYIRAEV EDNIMVTFKN QASRPYSFYS
MURFVIII  FTDGSFSQPL YRGELNEHLG LLGPYIRAEV EDNIMVTFKN QASRPYSFYS
CANFVIII  FTDGSFTQPL YRGELNEHLG LLGPYIRAEV EDNIVVTFKN QASRPYSFYS

          1801                                              1850
HUMFVIII  SLISYEEDQR QGAEPRKNFV KPNETKTYFW KVQHHMAPTK DEFDCKAWAY
PIGFVIII  SLISYPDDQE QGAEPRHNFV QPNETRTYFW KVQHHMAPTE DEFDCKAWAY
MURFVIII  SLISYKEDQ. RGEEPRRNFV KPNETKIYFW KVQHHMAPTE DEFDCKAWAY
CANFVIII  SLISYDEDEG QGAEPRRKFV NPNETKIYFW KVQHHMAPTK DEFDCKAWAY

          1851                                              1900
HUMFVIII  FSDVDLEKDV HSGLIGPLLV CHTNTLNPAH GRQVTVQEFA LFFTIFDETK
PIGFVIII  FSDVDLEKDV HSGLIGPLLI CRANTLNAAH GRQVTVQEFA LFFTIFDETK
MURFVIII  FSDVDLERDM HSGLIGPLLI CHANTLNPAH GRQVSVQEFA LLFTIFDETK
CANFVIII  FSDVDLEKDV HSGLIGPLLI CRSNTLNPAH GRQVTVQEFA LVFTIFDETK

          1901                                              1950
HUMFVIII  SWYFTENMER NCRAPCNIQM EDPTFKENYR FHAINGYIMD TLPGLVMAQD
PIGFVIII  SWYFTENVER NCRAPCHLQM EDPTLKENYR FHAINGYVMD TLPGLVMAQN
MURFVIII  SWYFTENVKR NCKTPCNFQM EDPTLKENYR FHAINGYVMD TLPGLVMAQD
CANFVIII  SWYFTENLER NCRAPCNVQK EDPTLKENFR FHAINGYVKD TLPGLVMAQD

          1951                                              2000
HUMFVIII  QRIRWYLLSM GSNENIHSIH FSGHVFTVRK KEEYKMALYN LYPGVFETVE
PIGFVIII  QRIRWYLLSM GSNENIHSIH FSGHVFSVRK KEEYKMAVYN LYPGVFETVE
MURFVIII  QRIRWYLLSM GNNENIQSIH FSGHVFTVRK KEEYKMAVYN LYPGVFETLE
CANFVIII  QKVRWYLLSM GSNENIHSIH FSGHVFTVRK KEEYKMAVYN LYPGVFETVE

          2001                                              2050
HUMFVIII  MLPSKAGIWR VECLIGEHLH AGMSTLFLVY SNKCQTPLGM ASGHIRDFQI
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Fig. 2d

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PIGFVIII   MLPSKVGIWR IECLIGEHLQ AGMSTTFLVY SKECQAPLGM ASGRIRDFQI
MURFVIII   MIPSRAGIWR VECLIGEHLQ AGMSTLFLVY SKQCQIPLGM ASGSIRDFQI
CANFVIII   MLPSQVGIWR IECLIGEHLQ AGMSTLFLVY SKKCQTPLGM ASGHIRDFQI

           2051                                              2100
HUMFVIII   TASGQYGQWA PKLARLHYSG SINAWSTKEP FSWIKVDLLA PMIIHGIKTQ
PIGFVIII   TASGQYGQWA PKLARLHYSG SINAWSTKDP HSWIKVDLLA PMIIHGIMTQ
MURFVIII   TASGHYGQWA PNLARLHYSG SINAWSTKEP FSWIKVDLLA PMIVHGIKTQ
CANFVIII   TASGQYGQWA PKLARLHYSG SINAWSTKDP FSWIKVDLLA PMIIHGIMTQ

           2101                                              2150
HUMFVIII   GARQKFSSLY ISQFIIMYSL DGKKWQTYRG NSTGTLMVFF GNVDSSGIKH
PIGFVIII   GARQKFSSLY ISQFIIMYSL DGRNWQSYRG NSTGTLMVFF GNVDASGIKH
MURFVIII   GARQKFSSLY ISQFIIMYSL DGKKWLSYQG NSTGTLMVFF GNVDSSGIKH
CANFVIII   GARQKFSSLY VSQFIIMYSL DGNKWHSYRG NSTGTLMVFF GNVDSSGIKH

           2151                                              2200
HUMFVIII   NIFNPPIIAR YIRLHPTHYS IRSTLRMELM GCDLNSCSMP LGMESKAISD
PIGFVIII   NIFNPPIVAR YIRLHPTHYS IRSTLRMELM GCDLNSCSMP LGMQNKAISD
MURFVIII   NSFNPPIIAR YIRLHPTHSS IRSTLRMELM GCDLNSCSIP LGMESKVISD
CANFVIII   NIFNPPIIAQ YIRLHPTHYS IRSTLRMELL GCDFNSCSMP LGMESKAISD

           2201                                              2250
HUMFVIII   AQITASSYFT NMFATWSPSK ARLHLQGRSN AWRPQVNNPK EWLQVDFQKT
PIGFVIII   SQITASSHLS NIFATWSPSQ ARLHLQGRTN AWRPRVSSAE EWLQVDLQKT
MURFVIII   TQITASSYFT NMFATWSPSQ ARLHLQGRTN AWRPQVNDPK QWLQVDLQKT
CANFVIII   AQITASSYLS SMLATWSPSQ ARLHLQGRTN AWRPQANNPK EWLQVDFRKT

           2251                                              2300
HUMFVIII   MKVTGVTTQG VKSLLTSMYV KEFLISSSQD GHQWTLFFQN GKVKVFQGNQ
PIGFVIII   VKVTGITTQG VKSLLSSMYV KEFLVSSSQD GRRWTLFLQD GHTKVFQGNQ
MURFVIII   MKVTGIITQG VKSLFTSMFV KEFLISSSQD GHHWTQILYN GKVKVFQGNQ
CANFVIII   MKVTGITTQG VKSLLISMYV KEFLISSSQD GHNWTLFLQN GKVKVFQGNR

           2301                                          2345
HUMFVIII   DSFTPVVNSL DPPLLTRYLR IHPQSWVHQI ALRMEVLGCE AQDLY
PIGFVIII   DSSTPVVNAL DPPLFTRYLR IHPTSWAQHI ALRLEVLGCE AQDLY
MURFVIII   DSSTPMMNSL DPPLLTRYLR IHPQIWEHQI ALRLEILGCE AQQQY
CANFVIII   DSSTPVRNRL EPPLVARYVR LHPQSWAHHI ALRLEVLGCD TQQPA
```

Fig. 2e

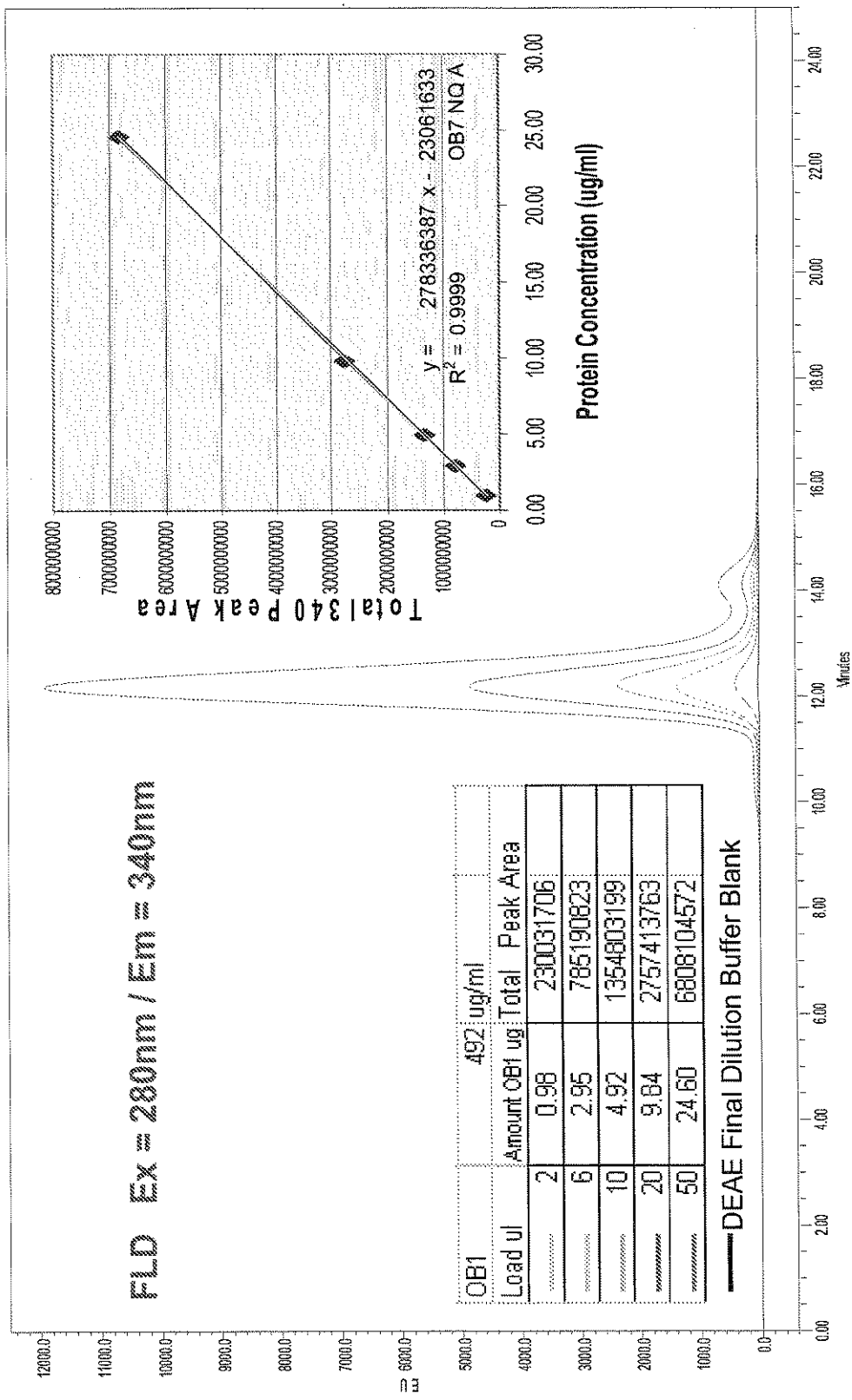

FLD Ex = 280nm / Em = 340nm
OB1
492 ug/ml
Load ul
Amount OB1 ug
Total Peak Area
2
0.98
230031706
6
2.95
785190823
10
4.92
1354803199
20
9.84
2757413763
50
24.60
6808104572
DEAE Final Dilution Buffer Blank
Minutes
Total 340 Peak Area
Protein Concentration (ug/ml)
y = 278336387 x - 23061633
R² = 0.9999
OB7 NQA

Fig. 3