

## Figure S4:

### Wild-type Nidogen-1

MLATVRRSGAAWTRALLLQLLLAGPGGCLSRQELFFPGPEHGDLELEAGDDLVS PALELSTALHFFDRSDI  
DSVYVTTNGIIMSEPPAKETHPGFPPTFGAVAPFLADLDTTDGLGKVYYREDLSPSVTQLAAECVQRGFP  
EVSFKPSSAVVVWESVAPYQGPSKDPTLEGKRNTFQSILASSDSSTYAIFLYPEDGLQFYTTFSKKEENQVP  
AVVAFSQGLVGLIWKSDGAYNIFANDKESIGNLAKSSNSGLQGIWVFEIGSPATASGVVPADVNLGLDDGTE  
YDDEDYDSVTRVGLEDAVTTSFPYEAPGRGDSGTYNTPSDLSPRRMATERPLTPPTEKTRSFQLPGERFPQQ  
QPQVIDVDEVEETEIVFRYNTDSRQTCANNRHQCSVHAECRDFATGFCCRCVAGYTGNGRQCVAEGSPQR  
VNGKVKGRIFVGDSDQVPIVFENTDLHSYVVMNHGRSYTAISTIPETVGYSLLPLAPIGGIIGWMFAVEQDGF  
KNGFSITGGEFTRQAEVTFVGHDRDKLIKQFSGIDEHGHLTIDTELEGRVPQIAFGSSVHIEPYTELYHYSR  
QVITSFSTREYTVTEPERHGTAPSHAHTYRWRQTITFRECLHDDSRPALPSTQQLSVDSVFLYNQEERILR  
YALSNSIGPVRDGS PDALQNPCYIGSHGCDSNAACRPGPGTQFTCECSIGFRGDGRTCYDIDECSEQPSVCG  
NHAICNNHPGTFRCECVEGYQFSEAGTCVAAVGLRPVNH CETGLHDCDIPQRARCIYMGSSYTCCLPGF  
SGDGRACQDVDECQPSRCHPDAFCYNTPGSFTCRCKSGYQGDGFHCVPGVVEKTRCQHEREHILGTADSS  
RPRPPGLFVPECDEHGQYVPTQCHSSTGYCWCVDRD GREVQGTTRTRSGMRPPCLSTVAPPVHYGPPVPTT  
VIPLPPGTHLLFAQTGKIERLPLEGSTMTKSEAKTLLHAPGKVIIGLAFDCVDKVMVYWTDISQPSIGRASLHG  
GEPATIVRQDLGSPGIALDHLGRNIFWTDSQLDRIEVAKLDGTQRRVLFETDLVNPRGIVTDSVRGNLYW  
TDWNRDNPKIETS YMDGTNRRLVQDDLGLPNGLTFDAYSSQLCWVDAGAHRAECLKPGQSSRRKVL EGL  
QYPPFAVTSFGKNLYYTDWKTNSVVAVDLAVSKETDSFHPHKQTRLYGITSALSQCPEGHNYCSVNNGGCTH  
LCLATPGSRTCRCPDNTLGVDCIERK

### Mutant Nidogen-1

MLATVRRSGAAWTRALLLQLLLAGPGGCLSRQELFFPGPEHGDLELEAGDDLVS PALELSTALHFFDRSDI  
DSVYVTTNGIIMSEPPAKETHPGFPPTFGAVAPFLADLDTTDGLGKVYYREDLSPSVTQLAAECVQRGFP  
EVSFKPSSAVVVWESVAPYQGPSKDPTLEGKRNTFQSILASSDSSTYAIFLYPEDGLQFYTTFSKKEENQVP  
AVVAFSQGLVGLIWKSDGAYNIFANDKESIGNLAKSSNSGLQGIWVFEIGSPATASGVVPADVNLGLDDGTE  
YDDEDYDSVTRVGLEDAVTTSFPYEAPGRGDSGTYNTPSDLSPRRMATERPLTPPTEKTRSFQLPGERFPQQ  
QPQVIDVDEVEETEIVFRYNTDSRQTCANNRHQCSVHAECRDFATGFCCRCVAGYTGNGRQCVAEGSPQR  
VNGKVKGRIFVGDSDQVPIVFENTDLHSYVVMNHGRSYTAISTIPETVGYSLLPLAPIGGIIGWMFAVEQDGF  
KNGFSITGGEFTRQAEVTFVGHDRDKLIKQFSGIDEHGHLTIDTELEGRVPQIAFGSSVHIEPYTELYHYSR  
QVITSFSTREYTVTEPERHGTAPSHAHTYRWRQTITFRECLHDDSRPALPSTQQLSVDSVFLYNQEERILR  
YALSNSIGPVRDGS PDALQNPCYIGSHGCDSNAACRPGPGTQFTCECSIGFRGDGRTCYDIDECSEQPSVCG  
NHAICNNHPGTFRCECVEGYQFSEAGTCVAAVGLRPVNH CETGLHDCDIPQRARCIYMGSSYTCCLPGF  
SGDGRACQDVDECQPSRCHPDAFCYNTPGSFTCRCKSGYQGDGFHCVPGVVEKTRCQHEREHILGTADSS  
RPRPPGLFVPECDEHGQYVPTQCHSSTGYCWCVDRD GREVQGTTRTRSGMRPPCLSTVAPPVHYGPPVPTT  
VIPLPPGTHLLFAQTGKIERLPLEGSTMTKSEAKTLLHAPGKVIIGLAFDCVDKVMVYWTDISQPSIGRASLHG  
GEPATIVRQDLGSPGIALDHLGRNIFWTDSQLDRIEVAKLDGTQRRVLFETDLVNPRGIVTDSVRGNLYW  
TDWNRDNPKIETS YMDGTNRRLVQDDLGLPNGLTFDAYSSQLCWVDAGAHRAECLKPGQSSRRKVL EGL  
QYPPFAVTSFGKNLYYTDWKTSQLLSEQRWLHPPLLGHPKQDLPLP