MAVEGGMKCVKFLLYVLLLAFCACAVGLIAIGVAVQVVLKQAMHGSLAEAKVLANR
ELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPGSELREGVELCPGNKYEMRRH
GTTHSLVIHDDSGSPFPAAVILRDALHMARGLKYLHQELMHITHETTAGSLLPVVIIA
VGAFLFLVAFVGCCGACKENYCLMITFAIFLSLIMLVEVAVAIAGYVFRDQVKSEFNK
SFQQQMQNYLKDNKTATILDKLQKENNCCGATRRTQHDEAVDANSLAEAKVLANR
ELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPRTCTSGVYDFFVWLGRGHLLG
RLAAIVGKQVLLGRKVVVVRSHCHWNDLAVIPAGVVHNWDFEPRKVSCTPSKPSF
QEFVDWENVSPELNSTDQPFLSGTRSNYTDWENIPGMAKDRVPDSCCINITVGCG
NDFKESTIHTQGCVETIAIWLRKNILLVAAAALGIAFVEVLGIIFSCCLVKSIRSGYEVM
GSGSGSGSGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRI
VLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVT
PNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGW
RLCERILAHHHHHH*

SEQ ID NO:10 mCD63-ABDX2-Mut30-Nanoluc (SEQ ID NO: 39)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAIGVAVQVVLKQAMHGSLAEAKVLANR
ELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPGSELMHITHETTAGSLLPVVIIA
VGAFLFLVAFVGCCGACKENYCLMITFAIFLSLIMLVEVAVAIAGYVFRDQVKSEFNK
SFQQQMQNYLKDNKTATILDKLQKENNCCGATRRTQHDEAVDANSLAEAKVLANR
ELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPRTCTPSKPSFQEFVDWENVSP
ELNSTDQPFLSGTRSNYTDWENIPGMAKDRVPDSCCINITVGCGNDFKESTIHTQG
CVETIAIWLRKNILLVAAAALGIAFVEVLGIIFSCCLVKSIRSGYEVMGSGSGSGSGSV
FTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIH
VIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYE
GIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILAHHHH
HH*

SEQ ID NO:11 mCD9-Nluc (SEQ ID NO: 40)

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MPVKGGSKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSMHIFEQENNHSSFYTGVYILIGAGA
LMMLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSKD
EPQRETLKAIHMALDCCGITRAGPLEQFISDTCPKKQLLESFQVKPCPEAISEVFNNKFHIIGAVGIG
IAVVMIFGMIFSMILCCAIRRSREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVT
PIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMI
DYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA
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SEQ ID NO:12 mCD9-ABDX2-Nluc (SEQ ID NO: 41)

MPVKGGSKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSMHLAEAKVLANRELDKYGVSDFYKR
LINKAKTVEGVEALKLHILAALPMHIFEQENNHSSFYTGVYILIGAGALMMLVGFLGCCGAVQESQCM
LGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSKDEPQRETLKAIHMALDCCGIT
RQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPTRAGPLEQFIS
DTCPKKQLLESFQVKPCPEAISEVFNNKFHIIGAVGIGIAVVMIFGMIFSMILCCAIRRSREMVGSVF
TLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQ
MGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKI
IDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:13 mCD9-ABD 1 st-Nluc (SEQ ID NO: 42)

MPVKGGSKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSMHLAEAKVLANRELDKYGVSDFYKR
LINKAKTVEGVEALKLHILAALPMHIFEQENNHSSFYTGVYILIGAGALMMLVGFLGCCGAVQESQCM
LGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSKDEPQRETLKAIHMALDCCGIT
RAGPLEQFISDTCPKKQLLESFQVKPCPEAISEVFNNKFHIIGAVGIGIAVVMIFGMIFSMILCCAIR
RSREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVI
IPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITV
TGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:14 mCD9-ABD 2 nd-Nluc (SEQ ID NO: 43)

MPVKGGSKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSMHIFEQENNHSSFYTGVYILIGAGA
LMMLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAVWGYTHKDEVIKELQEFYKDTYQKLRSKD
EPQRETLKAIHMALDCCGITRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEAL
KLHILAALPTRAGPLEQFISDTCPKKQLLESFQVKPCPEAISEVFNNKFHIIGAVGIGIAVVMIFGMI
FSMILCCAIRRSREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGE
NGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGI
AVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:15 mCD81-Nluc (SEQ ID NO: 48)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTSLLYMHLELGNKPAPNTFYVGIYILI
AVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQA
VMDDDANNAKAVVKTFHETLNCCGSTRNALTTLTTTILRNSLCPSGGNILTPLLQQDCHQKIDELFSG
KLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSS
LFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTL
VIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCE
RILA

SEQ ID NO:16 mCD81-ABDX2-Nluc (SEQ ID NO: 49)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTSLLYMHLAEAKVLANRELDKYGVSDF
YKRLINKAKTVEGVEALKLHILAALPMHLELGNKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQE
SQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVMDDDANNAKAVVKTFHETL
NCCGSTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPTRNAL
TTLTTTILRNSLCPSGGNILTPLLQQDCHQKIDELFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGI
RNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVI
IPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITV
TGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:17 mCD81-ABD 1 st-Nluc (SEQ ID NO: 50)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTSLLYMHLAEAKVLANRELDKYGVSDF
YKRLINKAKTVEGVEALKLHILAALPMHLELGNKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQE
SQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVMDDDANNAKAVVKTFHETL
NCCGSTRNALTTLTTTILRNSLCPSGGNILTPLLQQDCHQKIDELFSGKLYLIGIAAIVVAVIMIFEM
ILSMVLCCGIRNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGE
NGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGI
AVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:18 mCD81-ABD 2 nd-Nluc (SEQ ID NO: 51)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTSLLYMHLELGNKPAPNTFYVGIYILI
AVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQA
VMDDDANNAKAVVKTFHETLNCCGSTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTV
EGVEALKLHILAALPTRNALTTLTTTILRNSLCPSGGNILTPLLQQDCHQKIDELFSGKLYLIGIAAI
VVAVIMIFEMILSMVLCCGIRNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVT
PIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMI
DYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:19 hCD9-Nluc (SEQ ID NO: 52)

MPVKGGTKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSIMHFEQETNNNNSSFYTGVYILIGA
GALMMLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLKT
KDEPQRETLKAIHYALNCCGLTRAGGVEQFISDICPKKDVLETFTVKSCPDAIKEVFDNKFHIIGAVG
IGIAVVMIFGMIFSMILCCAIRRNREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVS
VTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPN
MIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:20 hCD9-ABDX2-Nluc (SEQ ID NO: 53)

MPVKGGTKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSIMHLAEAKVLANRELDKYGVSDFYK
RLINKAKTVEGVEALKLHILAALPMHFEQETNNNNSSFYTGVYILIGAGALMMLVGFLGCCGAVQESQ
CMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLKTKDEPQRETLKAIHYALNCCG
LTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPTRAGGVEQF
ISDICPKKDVLETFTVKSCPDAIKEVFDNKFHIIGAVGIGIAVVMIFGMIFSMILCCAIRRNREMVGS
VFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSG
DQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGN
KIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:21 hCD9-ABD 1 st-Nluc (SEQ ID NO: 54)

MPVKGGTKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSIMHLAEAKVLANRELDKYGVSDFYK
RLINKAKTVEGVEALKLHILAALPMHFEQETNNNNSSFYTGVYILIGAGALMMLVGFLGCCGAVQESQ
CMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLKTKDEPQRETLKAIHYALNCCG
LTRAGGVEQFISDICPKKDVLETFTVKSCPDAIKEVFDNKFHIIGAVGIGIAVVMIFGMIFSMILCCA
IRRNREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIH
VIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKI
TVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:22 hCD9-ABD 2 nd-Nluc (SEQ ID NO: 55)

MPVKGGTKCIKYLLFGFNFIFWLAGIAVLAIGLWLRFDSQTKSIMHFEQETNNNNSSFYTGVYILIGA
GALMMLVGFLGCCGAVQESQCMLGLFFGFLLVIFAIEIAAAIWGYSHKDEVIKEVQEFYKDTYNKLKT
KDEPQRETLKAIHYALNCCGLTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVE
ALKLHILAALPTRAGGVEQFISDICPKKDVLETFTVKSCPDAIKEVFDNKFHIIGAVGIGIAVVMIFG
MIFSMILCCAIRRNREMVGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLS
GENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYE
GIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:23 hCD63-Nluc (SEQ ID NO: 56)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTGTIIQGATPGSLLPVVIIAVGVFLFL
VAFVGCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTAS
ILDRMQADFKCCGAGSANYTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLR
KNVLVVAAAALGIAFVEVLGIVFACCLVKSIRSGYEVMVFTLEDFVGDWRQTAGYNLDQVLEQGGVSS
LFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTL
VIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCE
RILA

SEQ ID NO:24 hCD63-ABDX2-Nluc (SEQ ID NO: 57)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTGTLAEAKVLANRELDKYGVSDFYKRL
INKAKTVEGVEALKLHILAALPGTIIQGATPGSLLPVVIIAVGVFLFLVAFVGCCGACKENYCLMITF
AIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAGSQHDE
AVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPGSANYTDWEKIPSMSK
NRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNVLVVAAAALGIAFVEVLGIVFACCLVKS
IRSGYEVMVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVI
IPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITV
TGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:25 hCD63-ABD 1 st-Nluc (SEQ ID NO: 58)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTGTLAEAKVLANRELDKYGVSDFYKRL
INKAKTVEGVEALKLHILAALPGTIIQGATPGSLLPVVIIAVGVFLFLVAFVGCCGACKENYCLMITF
AIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAGSANYT
DWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNVLVVAAAALGIAFVEVLG
IVFACCLVKSIRSGYEVMVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGE
NGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGI
AVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:26 hCD63-ABD 2 nd-Nluc (SEQ ID NO: 59)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTGTIIQGATPGSLLPVVIIAVGVFLFL
VAFVGCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTAS
ILDRMQADFKCCGAGSQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHIL
AALPGSANYTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNVLVVAAAA
LGIAFVEVLGIVFACCLVKSIRSGYEVMVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVT
PIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMI
DYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:27 hCD63-RC 2 nd-Nluc (SEQ ID NO: 60)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTGTIIQGATPGSLLPVVIIAVGVFLFL
VAFVGCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTAS
ILDRMQADFKCCGAGSGKGCKYVKLKCFHPFDSFGLINKPFIKVTNPILIKFPISQYFSFGQAVSIYS
LIMLGSANYTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNVLVVAAAA
LGIAFVEVLGIVFACCLVKSIRSGYEVMVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVT
PIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMI
DYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:28 hCD81-Nluc (SEQ ID NO: 61)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTNLLYLEMHLGDKPAPNTFYVGIYILI
AVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQA
VVDDDANNAKAVVKTFHETLDCCGSTRSTLTALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSG
KLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSS
LFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTL
VIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCE
RILA

SEQ ID NO:29 hCD81-ABDX2-Nluc (SEQ ID NO: 62)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTNLLYLEMHLAEAKVLANRELDKYGVS
DFYKRLINKAKTVEGVEALKLHILAALPMHLGDKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQE
SQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVVDDDANNAKAVVKTFHETL
DCCGSTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPTRSTL
TALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGI
RNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVI
IPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITV
TGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:30 hCD81-ABD 1 st-Nluc (SEQ ID NO: 63)

MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTNLLYLEMHLAEAKVLANRELDKYGVS
DFYKRLINKAKTVEGVEALKLHILAALPMHLGDKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQE
SQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVVDDDANNAKAVVKTFHETL
DCCGSTRSTLTALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAAIVVAVIMIFEM
ILSMVLCCGIRNSSVYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGE
NGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGI
AVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA

SEQ ID NO:31 hCD81-ABD 2 nd-Nluc (SEQ ID NO: 64)

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MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTNLLYLEMHLGDKPAPNTFYVGIYILIAVGAVM
MFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVVDDDANNAKAV
VKTFHETLDCCGSTRQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVEGVEALKLHILAALPTRS
TLTALTTSVLKNNLCPSGSNIISNLFKEDCHQKIDDLFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSS
VYGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQ
MGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLI
NPDGSLLFRVTINGVTGWRLCERILA
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SEQ ID NO:32 Lamp2B-Nluc (SEQ ID NO: 65)

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MVCFRLFPVPGSGLVLVCLVLGAVRSYALKFETGGAPMHISQAVHAAHAEINEAGRSIINFEKLCTSVYDFFVW
LGRGHLLGRLAAIVGKQVLLGRKVVVVRSHCHWNDLAVIPAGVVHNWDFEPRKVSPSKPSFQEFVDWENVSPEL
NSTDQPFLCTGSGSGSGSGSLKPAGILIPIIVGAGLSGLIIVIVIAYVIGRRKSYAGAQTLGGGGSYIPEAPRD
GQAYVRKDGEWVLLSTFLSPANGTPTPTPTPTGRSLYPSLEDLKVDKVIQAQTAFSANPANPAILSEASAPIPH
DGNLYPRLYPELSQYMGLSLEGGQLGTPTPTPTPTGGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLG
VSVTPIQRIVLSGENGLKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDY
FGRPYEGIAVFDGKKITVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA
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SEQ ID NO:33 Lamp2B-ABD-Nluc (SEQ ID NO: 66)

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MVCFRLFPVPGSGLVLVCLVLGAVRSYALKFEQHDEAVDANSLAEAKVLANRELDKYGVSDFYKRLINKAKTVE
GVEALKLHILAALPFETGGAPMHISQAVHAAHAEINEAGRSIINFEKLCTSVYDFFVWLGRGHLLGRLAAIVGK
QVLLGRKVVVVRSHCHWNDLAVIPAGVVHNWDFEPRKVSPSKPSFQEFVDWENVSPELNSTDQPFLCTGSGSGS
GSGSLKPAGILIPIIVGAGLSGLIIVIVIAYVIGRRKSYAGAQTLGGGGSYIPEAPRDGQAYVRKDGEWVLLST
FLSPANGTPTPTPTPTGRSLYPSLEDLKVDKVIQAQTAFSANPANPAILSEASAPIPHDGNLYPRLYPELSQYM
GLSLEGGQLGTPTPTPTPTGGSVFTLEDFVGDWRQTAGYNLDQVLEQGGVSSLFQNLGVSVTPIQRIVLSGENG
LKIDIHVIIPYEGLSGDQMGQIEKIFKVVYPVDDHHFKVILHYGTLVIDGVTPNMIDYFGRPYEGIAVFDGKKI
TVTGTLWNGNKIIDERLINPDGSLLFRVTINGVTGWRLCERILA
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