

*** *****
MSHR1043 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
MSHR1655 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
MSHR6686 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
K96243 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
1710b MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
1106a MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
668 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
1026b MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
BPC006 MVNNTKIAIIGASCRFPGGVAGLEEYWQLLKSERDAVTEIPPERFGTDFYRHPSKREPGKSYTFSAGVLDNVAGFDAAFFG 80
1.....10.....20.....30.....40.....50.....60.....70.....80



MSHR1043 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
MSHR1655 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
MSHR6686 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
K96243 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
1710b ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
1106a ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
668 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
1026b ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
BPC006 ISPREATQMDPQQRLLLELAWAEAFEDAGVRPADMRGNSCGVYVGVAGTDYGNRSMDLNAIDPYSATGNLTSIASNRVSY 160
.....90.....100.....110.....120.....130.....140.....150.....160



MSHR1043 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
MSHR1655 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
MSHR6686 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
K96243 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
1710b LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
1106a LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
668 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
1026b LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
BPC006 LFDLRGPPMSVDTACSSSLVALHQAVQALQSGEAETALAGGVNLLLHPFGFVFSKASMLSPRGRCAFADATGDGYVRAE 240
.....170.....180.....190.....200.....210.....220.....230.....240



MSHR1043 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
MSHR1655 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
MSHR6686 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
K96243 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
1710b GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
1106a GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
668 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
1026b GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
BPC006 GGAFVLLKPLDRAIADGDTIHAVIAGSGVNSVGHSPGGISVPGAAAQAALLRSVYARAGVDPQSLAYLEAHGTGTAVGDP 320
.....250.....260.....270.....280.....290.....300.....310.....320



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MSHR1043 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
MSHR1655 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
MSHR6686 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
K96243 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
1710b IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
1106a IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
668 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
1026b IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
BPC006 IEARALIDVVS GARPADRPLLIGSVKTNIGHLETASGMAGLLKAVLCLKHRAVPRSLYFSIPNPAIDFDGGRLRVVDRYM 400
.....330.....340.....350.....360.....370.....380.....390.....400



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MSHR1043 PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
MSHR1655 PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
MSHR6686 PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
K96243 PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAVAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
1710b PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAVAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
1106a PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAVAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
668 SLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAAVADDVPTSATQAARAPFALVLTARSPNALGALANRYLAALENGDD 480
1026b PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
BPC006 PLEAGNAPLTVGVNSFGFGGTNAHIVLTEAPVSAVAVADDVPTSATQAARAPSAVLVTARSPNALGALANRYLAALENGDD 480
.....410.....420.....430.....440.....450.....460.....470.....480



MSHR1043 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
MSHR1655 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
MSHR6686 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
K96243 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
1710b WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
1106a WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
668 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
1026b WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
BPC006 WQALAAAAARRRQWLEHRAIVAPADAAEGRALAALARPAPEGGPSCVTTGRAPADAPRTALVFSGNGCQWVGMGNALYA 560
.....490.....500.....510.....520.....530.....540.....550.....560



MSHR1043 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
MSHR1655 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
MSHR6686 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
K96243 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
1710b EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
1106a EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
668 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
1026b EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
BPC006 EDAVFRAALDEVDALWCADGSPSLVDVMRGGPGAQWLAGAGAEWLAATENAPLLFAIQVGMIRVIDARGMRYDAAIGHS 640
.....570.....580.....590.....600.....610.....620.....630.....640



MSHR1043 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
MSHR1655 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
MSHR6686 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
K96243 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
1710b VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
1106a VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
668 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
1026b VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
BPC006 VGEVAAAQVVTGALSITDAVRVIKIRSRQAAMTRGCGRMAAVGIGDAAARELIARHGLARRVEIAGVNSPDAVTLAGEPOG 720
.....650.....660.....670.....680.....690.....700.....710.....720



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MSHR1043 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
MSHR1655 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
MSHR6686 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
K96243 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
1710b LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
1106a LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
668 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
1026b LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
BPC006 LOVLEAALRSGKFFQMLDLDYAFHSSHMDRIEPVVLAGLAGLRPQSGNGAFVSTVTGGALAGSELDAARYWWRNIREPVR 800
.....730.....740.....750.....760.....770.....780.....790.....800



MSHR1043 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
MSHR1655 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
MSHR6686 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
K96243 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
1710b FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
1106a FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
668 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
1026b FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
BPC006 FGDGIAHLIEQGVRLFVEVSPHSILRITYVKQALAAAGVTGVALPTLKRDHGSAATLRQAILAAIAHGASVDPDRFAPGAS 880
.....810.....820.....830.....840.....850.....860.....870.....880



MSHR1043 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
MSHR1655 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
MSHR6686 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
K96243 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
1710b RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
1106a RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
668 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
1026b RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
BPC006 RAALPSYPWORERFWLTPIVEGYGLVNRREHPLLGYRLHEHAFAWENQLDPAKLPMLADHVVDGGVAFPGAGYVEMALA 960
.....890.....900.....910.....920.....930.....940.....950.....960



MSHR1043 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
MSHR1655 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
MSHR6686 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
K96243 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
1710b AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
1106a AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
668 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
1026b AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
BPC006 AACAFFDTPDAALENVEIRMPVVFQPOQAKLFRLLVIEPRATFTIETDRMSDGAWTLNVTGRMLESIGNALGAASVVPSPD 1040
.....970.....980.....990.....1000.....1010.....1020.....1030.....1040



MSHR1043 MLERLLALPAAHGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
MSHR1655 MLERLLALPAAHGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
MSHR6686 MLERLLALPAAHGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
K96243 MLERLLALPAAHGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
1710b MLERLLALPAADGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
1106a MLERLLALPAADGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
668 MLERLLALPAADGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
1026b MLERLLALPAADGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
BPC006 MLERLLALPAADGDMLYANTAAIGLGYGPAFRWVRTVVAEGDDAALADVAAPDACGDARTLSAYRLHPALMDSGFHPLF 1120
.....1050.....1060.....1070.....1080.....1090.....1100.....1110.....1120



MSHR1043 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
MSHR1655 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
MSHR6686 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
K96243 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
1710b ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
1106a ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
668 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
1026b ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
BPC006 ALLAAHARDGEHPAYVPVQIGRVDYLRGDTVAVRLARIDRRSPHSIVAHFEFLDAQGAIIVARLGACRFRFVLDVGRRONL 1200
.....1130.....1140.....1150.....1160.....1170.....1180.....1190.....1200



MSHR1043 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
MSHR1655 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
MSHR6686 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
K96243 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
1710b PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
1106a PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
668 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
1026b PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
BPC006 PARFVYRL EAMPLPGDVDAAGLPAPDALLARAVARLDAGHDGRRTRHLEILPLLDVLA SLVVLQAFDALGAFAGTWRPA 1280
.....1210.....1220.....1230.....1240.....1250.....1260.....1270.....1280



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MSHR1043 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
MSHR1655 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
MSHR6686 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
K96243 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
1710b HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
1106a HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
668 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
1026b HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
BPC006 HGCAALAA RLADMLVEDGLAHRDGDRLVRDDAA CAALPPLDELWLRGLLAE SPAHVAEL TLLAHCGSALPGVLSGAKDGTR 1360
.....1290.....1300.....1310.....1320.....1330.....1340.....1350.....1360



MSHR1043 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
MSHR1655 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
MSHR6686 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
K96243 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
1710b LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
1106a LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
668 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
1026b LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
BPC006 LLSP TGHSLVEHLLAASPTWQH VYALLTASVEQAVDAWQPARRLRVLELGATDGDVLOTLMH LAPARCDHTIAATAGQL 1440
.....1370.....1380.....1390.....1400.....1410.....1420.....1430.....1440



MSHR1043 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
MSHR1655 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
MSHR6686 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
K96243 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
1710b AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
1106a AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
668 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
1026b AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
BPC006 AGFGADAQAAVTTVALQ PGERLSLA ADEAGPYDVIVANRALS GRRDVADALNAMRSWLAPGG LLLLLAESRRGRFS DIVFG 1520
.....1450.....1460.....1470.....1480.....1490.....1500.....1510.....1520



MSHR1043 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
MSHR1655 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
MSHR6686 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
K96243 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
1710b MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
1106a MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
668 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
1026b MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
BPC006 MQAPSTQTDAPAPLAPADLEAALAHAGYVGVVRHVEQSLDLEGT PMFVIARNPASAVAAPS GGDSSDDLTLARSEQWLVL 1600
.....1530.....1540.....1550.....1560.....1570.....1580.....1590.....1600



MSHR1043 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
MSHR1655 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
MSHR6686 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
K96243 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
1710b HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
1106a HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
668 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
1026b HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
BPC006 HAPDVVGGFGARLADALAHAGYPADIVEITHAADAIASLPAGQPAHVVFCAPEPLAEAAATGDDLMAAQRNGVIALAALV 1680
.....1610.....1620.....1630.....1640.....1650.....1660.....1670.....1680



MSHR1043 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
MSHR1655 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
MSHR6686 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
K96243 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
1710b RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
1106a RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
668 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
1026b RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
BPC006 RVLGAQPNATTRLTIVTRGGAPFAGTAHAHPEQATLWGLGRVLANEHPPELACRLIDVDCAADRIPEALIRELTGAALEEE 1760
.....1690.....1700.....1710.....1720.....1730.....1740.....1750.....1760



MSHR1043 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
MSHR1655 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
MSHR6686 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
K96243 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
1710b VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
1106a VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
668 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
1026b VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
BPC006 VVLGAHGRVPRMLTAAQDAARNDGAIARA AVLAFDAPGSLRNLEWFALAESALGADEVEIEPVATGLNFRDVMYAMGLL 1840
.....1770.....1780.....1790.....1800.....1810.....1820.....1830.....1840



MSHR1043 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRARRRRSRNP SACRSRRRRP CRPRSSPRI 1920
MSHR1655 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRARRRRSRNP SACRSRRRRP CRPRSSPRI 1920
MSHR6686 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRARRRRSRNP SACRSRRRRP CRPRSSPRI 1920
K96243 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
1710b SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
1106a SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
668 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
1026b SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
BPC006 SDEAVETGFAGATIGMELSGRVVVRVGS AVTEFAPGDAILGFAPASFATRVRRAQAIAPKPERLSFEEAATVPTTFFFTAY 1920
.....1850.....1860.....1870.....1880.....1890.....1900.....1910.....1920



MSHR1043 TRSSNSRGC AAASACS YMAARAASG SRRSSSRAT SARKCSRRAVTRSSASSCACSVPTTCSIRA AAWRSRTRFAR 1994
MSHR1655 TRSSNSRGC AAASACS YMAARAASG SRRSSSRAT SARKCSRRAVTRSSASSCACSVPTTCSIRA AAWRSRTRFAR 1994
MSHR6686 TRSSNSRGC AAASACS YMAARAASG SRRSSSRAT SARKCSRRAVTRSSASSCACSVPTTCSIRA AAWRSRTRFAR 1994
K96243 YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
1710b YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
1106a YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
668 YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
1026b YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
BPC006 YALVELARLRRGERVLVHGAGGVGIAA IQLARYFGAEVFATAGSDEKREFVRLLGADHVLD SRSLAFADEIRAMTGGEG 2000
.....1930.....1940.....1950.....1960.....1970.....1980.....1990.....2000



MSHR1043 1994
MSHR1655 1994
MSHR6686 1994
K96243 IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
1710b IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
1106a IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
668 IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
1026b IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
BPC006 IDIVLNSLAGEAMVRSIDTLRPFGRFLELGKRDFYENSHIGLRPFRNNISYFGIDADQLMGALPELTARLFGDVMGLFAA 2080
.....2010.....2020.....2030.....2040.....2050.....2060.....2070.....2080

MSHR1043 1994
MSHR1655 1994
MSHR6686 1994
K96243 GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
1710b GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
1106a GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
668 GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
1026b GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
BPC006 GVLHPLPYRAFFAERAEDAFRYMQQARQIGKVLVITYPCGTPAPTHGAARADSLALDPHGAYLVVGGTGGGLGFASARWMVE 2160
.....2090.....2100.....2110.....2120.....2130.....2140.....2150.....2160

MSHR1043 1994
MSHR1655 1994
MSHR6686 1994
K96243 RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
1710b RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
1106a RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
668 RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
1026b RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
BPC006 RGARRLTLASRSGELAVAAARDEIECWRAITLGVAVDIVSCDVTDAAAVDAMIAAIVRRDIPKGVLSAMAIIDDGLVRNLD 2240
.....2170.....2180.....2190.....2200.....2210.....2220.....2230.....2240

MSHR1043 1994
MSHR1655 1994
MSHR6686 1994
K96243 DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
1710b DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
1106a DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
668 DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
1026b DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
BPC006 DARMAAVLAPKVAGAWNLHRATRSPLDLFVVYSSATTYLGPNPQSNYVAANSFLEALVEHRAAGLPGTFMAWGPLEDV 2320
.....2250.....2260.....2270.....2280.....2290.....2300.....2310.....2320

MSHR1043 1994
MSHR1655 1994
MSHR6686 1994
K96243 GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
1710b GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
1106a GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
668 GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
1026b GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
BPC006 GFLARHADTREALQSRI GGASITSGEAMIALERALVAGAAGEAVVRLDWHAVARGMPAAKARRYSLLQSHANGGDARDGG 2400
.....2330.....2340.....2350.....2360.....2370.....2380.....2390.....2400

MSHR1043		1994
MSHR1655		1994
MSHR6686		1994
K96243	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
1710b	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
1106a	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
668	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
1026b	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
BPC006	TQLREEVLALPRDEAIALVAGTLQAQIARILHMTPDRIALDKSVLDMGMDSLMGMEGLGLAVEEAFEVKLSVMAIAEGASA	2480
2410.....2420.....2430.....2440.....2450.....2460.....2470.....2480	

MSHR1043		1994
MSHR1655		1994
MSHR6686		1994
K96243	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
1710b	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
1106a	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
668	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
1026b	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
BPC006	MTLAGRIVDSIGASADAGAGAAADSAHEAVAALAAKHAIDGDARAVLDIRPAPVAGQVSPITLEVAR	2546
2490.....2500.....2510.....2520.....2530.....2540.....	
