

Alignment of pbp2A sequence

pbp2a_32098	MDDLQHQP IE VPEDFQID HED R PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_33329	MDDLQHQP IE VPEDFQID HED R PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_22715	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_37647	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_40085	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_40484	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_40747	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_41126	MDDLQHQP IE VPEDFQID NED Q PSRR R RGNRGS V DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2A_P1/7	MDDLQHQP IE VPEDFQID HED R PSRR H RGNRGS I DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_32494	MDDLQHQP IE VPEDFQID HED R PSRR H RGNRGS I DKPKKKSRIPEPIRKFWRRYQLTKIL	60
pbp2a_30190	MDDLQHQP IE VPEDFQID HED R PSRR R RGNRGS I DKPKKKSRIPEPIRKFWRRYQLTKIL	60
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pbp2a_32098	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_33329	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_22715	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_37647	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_40085	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_40484	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_40747	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_41126	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2A_P1/7	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_32494	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
pbp2a_30190	IILMVLTVLTVGGYLFFLAKTANVGDLQQALKATTIIYDKDGAEAGTSLGQKGT Y VELDA	120
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pbp2a_32098	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_33329	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_22715	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_37647	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_40085	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_40484	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_40747	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_41126	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2A_P1/7	I SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_32494	I SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
pbp2a_30190	V SDNLENAVIATEDRSFYKNSGINYQRTILAALT L GRSGGGSTITQQLAKNAFLTQDQTI	180
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pbp2a_32098	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_33329	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_22715	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_37647	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_40085	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_40484	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_40747	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_41126	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2A_P1/7	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS N LTLEQAA	240
pbp2a_32494	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS D LTLEQAA	240
pbp2a_30190	SRKAREFFLALEINKKY S KQEILTMYLNNAYFGNGVWGVEDASQKYFGIPAS N LTLEQAA	240
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pbp2a_32098	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_33329	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_22715	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_37647	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_40085	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_40484	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_40747	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_41126	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2A_P1/7	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_32494	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN A GYIDQATADAGFQVDLASQLSDTYT	300
pbp2a_30190	VIAGMLKGPEIYNPYYSLEN A VNRRD T VLQNMVN T GYIDQATADAGFQVDLASQLSDTYT	300
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pbp2a_32098	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_33329	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_22715	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_37647	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_40085	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_40484	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_40747	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_41126	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2A_P1/7	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_32494	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360
pbp2a_30190	GKQSNYSYPSYFDAVIAEAIERYGLKESDIINNGYRIYTEM	DQNSQASMQVIFNDETMFP	360

pbp2a_32098	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_33329	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_22715	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_37647	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_40085	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_40484	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_40747	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_41126	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2A_P1/7	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_32494	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420
pbp2a_30190	TSSFDGTHAQAAASVALDPTGGVRLVGRVNSSEDAVFRTFN	FATQAKRSPGSTIKPLVA	420

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pbp2a_32098	YAPAVAAGWAIDTGLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTFG	480
pbp2a_33329	YAPAVAAGWAIDTGLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTFG	480
pbp2a_22715	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_37647	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_40085	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_40484	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_40747	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_41126	YAPAVAAGWSIDMSLDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2A_P1/7	YAPAVAAGWSIDMALDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_32494	YAPAVAAGWSIDMALDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480
pbp2a_30190	YAPAVAAGWSIDMALDNHTETYG	DYTLHNYDYSTSDTIPMYQALALS	YNLPVAYIVNTLG	480

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pbp2a_32098	IDKAFEFGQKFGLDMENVEKVLGASIGSGVETNPLQMAQAY	SAFANDGVMKDAHLITRIE	540
pbp2a_33329	IDKAFEFGQKFGLDMENVEKVLGASIGSGVETNPLQMAQAY	SAFANDGVMKDAHLITRIE	540
pbp2a_22715	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_37647	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_40085	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_40484	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_40747	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_41126	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2A_P1/7	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_32494	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540
pbp2a_30190	IDKAFEYGQKFGLDMENVEKVLGVSIGSGVETNPLQMAQAY	ATFANKGVMKDAHLITRIE	540

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pbp2a_32098	TASGKVLAEHRETSTKVIDRSVADKMTSMMLGTYTNGLGVSAD	ATNYYLAGKTGTTTETS	600
pbp2a_33329	TASGKVLAEHRETSTKVIDRSVADKMTSMMLGTYTNGLGVSAD	ATNYYLAGKTGTTTETS	600
pbp2a_22715	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_37647	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_40085	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_40484	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_40747	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_41126	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2A_P1/7	TASGKVLAEHRETSTKVIDRAVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_32494	TASGKVLAEHRETSTKVIDRAVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600
pbp2a_30190	TASGKVLAEHRETSTKVIDRSVADKMTAMMLGTYTNGTGV	TADTANYHLAGKTGTTTETS	600

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pbp2a_32098	DVNLVNDQWYIAYTPDLVISQWVGFEQTDENHYIDS	SGYWMAPT	TVFRTVADAILP	N	NTAGT	660
pbp2a_33329	DVNLVNDQWYIAYTPDLVISQWVGFEQTDENHYIDS	SGYWMAPT	TVFRTVADAILP	N	NTAGT	660
pbp2a_22715	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2a_37647	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2a_40085	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2a_40484	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2a_40747	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2a_41126	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	NSYWKAP	SVFQTVANSILP	Y	TAGT	660
pbp2A_P1/7	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	SSYWKAP	SVFQTVANSILP	Y	TAGS	660
pbp2a_32494	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	SSYWKAP	SVFQTVANSILP	Y	TAGS	660
pbp2a_30190	DVNLVNDQWHIAYTPDLVISQWVGFEQTDENHYIDS	SSYWKAP	SVFQTVANSILP	Y	TAGT	660
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pbp2a_32098	SFDVENAYVQNGIVEVAPDEAAQTESSLGQEQVQEIS	DQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_33329	SFDVENAYVQNGIVEVAPDEAAQTESSLGQEQVQEIS	DQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_22715	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_37647	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_40085	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_40484	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_40747	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_41126	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2A_P1/7	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_32494	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
pbp2a_30190	KFEVENAYAQNGIVEVAPDEAAQTESSLGQEQVQEIS	EQAKN	LIEQTKQNL	LIDAQLPERA	720	
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pbp2a_32098	KTLWDNITSWFGELSNP	737
pbp2a_33329	KTLWDNITSWFGELSNP	737
pbp2a_22715	KTLWDNITSWFGELSNP	737
pbp2a_37647	KTLWDNITSWFGELSNP	737
pbp2a_40085	KTLWDNITSWFGELSNP	737
pbp2a_40484	KTLWDNITSWFGELSNP	737
pbp2a_40747	KTLWDNITSWFGELSNP	737
pbp2a_41126	KTLWDNITSWFGELSNP	737
pbp2A_P1/7	KTLWDNITSWFGELSNP	737
pbp2a_32494	KTLWDNITSWFGELSNP	737
pbp2a_30190	KTLWDNITSWFGELSNP	737
