CLUSTAL 2.0.8 m	ultiple sequence alignment	
bDDX3Y-L bDDX3Y-S bDDX3Y-L bDDX3Y-S	TCATTCAAGAGAGTTTGTTTCCGGTAGACCAACCTGTGAGCCGGTTCCCGCGGGAGTCGT TCATTCAAGAGAGTTTGTTTCCGGTAGACCAACCTGTGAGCCGGTTCCCGCGGGAGTCGT TTCAAATACTGATACGCTAGACAAGCCATTTGAGACAGAGTTCGCGCCTTTCTTCAGGCACAAATACTGATACGCTAGACAAGCCATTTGAGACAGAGTTCGCGCCTTTCTTCAGGCACAAATACTGATACGCTAGACAAGCCATTTGAGACAGAGTTCGCGCCTTTCTTCAGGCACAAATACTGATACGCTAGACAAGCCATTTGAGACAGAGTTCGCGCCTTTCTTCAGGCACAA	120
bDDX3Y-L bDDX3Y-S	TGAGTCATGAGGCGGTGAAAAACGTGCAGGAGGTGGATCAGCAGTTGGCTGATCTAAACC TGAGTCATGAGGCGGTGAAAAACGTGCAGGAGGTGGATCAGCAGTTGGCTGATCTAAACC S H E A V K N V Q E V D Q Q L A D L N L	180 180
bDDX3Y-L bDDX3Y-S	TGAACTCTGATAATAATCAGAGTGGAGGAGGAAGTACAGCTAGCAAAGGGCGCTATATAC TGAACTCTGATAATAATCAGAGTGGAGGAGGAAGTACAGCTAGCAAAGGGCGCTATATAC N S D N N O S G G S T A S K G R Y I P	240 240
bDDX3Y-L bDDX3Y-S	CACCTCACTTAAGGAATAGGGAAGCATCTAAAGGATTTTATGGTAAAGGCAGTTCAGGGT	300 300
bDDX3Y-L bDDX3Y-S	GGAGTTGTAGTAAAGAAAAGGATGCCTACAGCAGTTTTGGATCTCGAGATTCAAGAGGAA GGAGTTGTAGTAAAGAAAAGGATGCCTACAGCAGTTTTGGATCTCGAGATTCAAGAGGAA S C S K E K D A Y S S F G S R D S R G R	18/9/20
bDDX3Y-L bDDX3Y-S	GACCCAGTTACTTCAGTGATCGAGGAAGTGGATCAAGGGGAAGGTTTGATGATCGTGGGC GACCCAGTTACTTCAGTGATCGAGGAAGTTGATCATGATCGTGGGC PSYFSDRGSSRGAAGTTGATGATCGTGGGC	420 420
bDDX3Y-L bDDX3Y-S	GGAATGAGTGTGAAGGTTTTGGCAGTCGTGGTGACAGAACTGGCTTTGGCAGATTTGAGC GGAATGAGTGTGAAGGTTTTGGCAGTCGTGGTGACAGAACTGGCTTTGGCAGATTTGAGC N E C E G F G S R G D R T G F G R F E R	12000
bDDX3Y-L bDDX3Y-S	GTAGTGGACACAGTCGTTGGTGTGACAAGTCAGATGATGACTGGTCAAAACCGCTTC GTAGTGGACACAGTCGTTGGTGTGACAAGTCAGATGATGACTGGTCAAAACCGCTTC S G H S R W C D K S D D D D W S K P L P	540 540
bDDX3Y-L bDDX3Y-S	CACCAAGTGAACGCTTGGAGCAGGAGCTCTTTTCTGGAGGAAACACTGGGATTAACTTTG CACCAAGTGAACGCTTGGAGCAGGAGCTCTTTTCTGGAGGAAACACTGGGATTAACTTTG PSERLEQELFSGGNTGACTTTT	50000
bDDX3Y-L bDDX3Y-S	AGAAATATGATGATATACCAGTAGAGGTAACCGGCAATAACTGTCCTCCGCACATTGAAA AGAAATATGATGATATACCAGTAGAGGTAACCGGCAATAACTGTCCTCCGCACATTGAAA K Y D D I P V E V T G N N C P P H I E S	GARAGE .
bDDX3Y-L bDDX3Y-S	GTTTCAGCGATGTTGCAATGGGAAAATTATTATGGGAAACATTGAGCTTACTCGTTACA GTTTCAGCGATGTTGCAATGGGAAAATTATTATGGGAAACATTGAGCTTACTCGTTACA F S D V A M G E I I M G N I E L T R Y T	720 720
bDDX3Y-L bDDX3Y-S	CACGTCCTACTCCAGTGCAAAAACATGCCATTCCCATTATTAAAGAAAAAAGGGACCTGA CACGTCCTACTCCAGTGCAAAAACATGCCATTCCCATTATTAAAGAAAAAAGGGACCTGA R P T P V Q K H A I P I I K E K R D L M	(44E)
bDDX3Y-L bDDX3Y-S	TGGCCTGTGCCCAGACAGGGTCTGGGAAAACTGCAGCATTTCTTTTGCCCATCTTGAGTC TGGCCTGTGCCCAGACAGGGTCTGGGAAAACTGCAGCATTTCTTTTGCCCATCTTGAGTC A C A Q T G S G K T A A F L L P I L S Q	840 840
bDDX3Y-L bDDX3Y-S	AGATTTATACAGATGGTCCAGGCGAGGCTTTGAAAGCTGTGAAGGAAAGTGGAAGGTATG AGATTTATACAGATGGTCCAGGCGAGGCTTTGAAAGCTGTGAAGGAAAGTGGAAGGTATG I Y T D G P G E A L K A V K E S G R Y G	23.00
bDDX3Y-L bDDX3Y-S	GACGCCGTAAACAGTATCCAATCTCCTTGGTTTTAGCCCCAACAAGAGAGTTGGCTGTAC GACGCCGTAAACAGTATCCAATCTCCTTGGTTTTAGCCCCCAACAAGAGAGTTGGCTGTAC R R K Q Y P I S L V L A P T R E L A V Q	23430
bDDX3Y-L bDDX3Y-S	AGATCTATGAGGAAGCCAGGAAATTTTCATACCGGTCTCGAGTTCTTCCTTGTGTGGTAT AGATCTATGAGGAAGCCAGGAAATTTTCATACCGGTCTCGAGTTCTTCCTTGTGTGGTAT I Y E E A R K F S Y R S R V L P C V V Y	200 8.0
bDDX3Y-L bDDX3Y-S	ACGGTGGTGCTGATATTGGTCAACAAATTCGAGACTTAGAACGTGGATGTCACTTGTTGG ACGGTGGTGCTGATATTGGTCAACAAATTCGAGACTTAGAACGTGGATGTCACTTGTTGG G G A D I G Q Q I R D L E R G C H L L V	CR200F100
bDDX3Y-L bDDX3Y-S	TGGCCACTCCAGGACGCCTGGTGGATATGATGGAAAGGGGAAAGATTGGGTTAGATTTCT TGGCCACTCCAGGACGCCTGGTGGATATGATGGAAAGGGGAAAGATTGGGTTAGATTTCT A T P G R L V D M M E R G K I G L D F C	100000000
bDDX3Y-L bDDX3Y-S	GCAAATACTTGGTGTTGGATGAAGCTGATAGGATGCTGGATATGGGATTTGAACCTCAGA GCAAATACTTGGTGTTGGATGAAGCTGATAGGATGCTGGATATGGGATTTGAACCTCAGA K Y L V L D E A D R M L D M G F E P Q I	378333
bDDX3Y-L bDDX3Y-S		1260 1260
bDDX3Y-L bDDX3Y-S	TTAGTGCTACTTTTCCTAAGGAAATTCAGATGCTTGCTCGTGATTTCTTGGATGAATATA TTAGTGCTACTTTTCCTAAGGAAATTCAGATGCTTGCTCGTGATTTCTTGGATGAATATA S A T F P K E I Q M L A R D F L D E Y I	3751515
bDDX3Y-L bDDX3Y-S	TCTTTCTGGCCGTAGGTAGAGTTGGCTCTACCTCTGAGAACATCACACAAAAAGTAGTTT TCTTTCTGGCCGTAGGTAGAGTTGGCTCTACCTCTGAGAACATCACACAAAAAGTAGTTT F L A V G R V G S T S E N I T Q K V V W	1380 1380
bDDX3Y-L bDDX3Y-S	GGGTGGAAGAGGCAGACAAACGGTCATTTCTGCTTGATCTCTTAAATGCAACAGGGACAG GGGTGGAAGAGGCAGACAAACGGTCATTTCTGCTTGATCTCTTAAATGCAACAGGGACAG V E E A D K R S F L L D L L N A T G T D	13/12/20
bDDX3Y-L bDDX3Y-S	ATTCACTGACTTTAGTTTTTGTGGAGACAAAAAAGGGGGGCTGATTCTTTGGAGGATTTCT ATTCACTGACTTTAGTTTTTGTGGAGACAAAAAAGGGGGGCTGATTCTTTGGAGGATTTCT S L T L V F V E T K K G A D S L E D F L	1500 1500
bDDX3Y-L bDDX3Y-S	TATACCATGAAGGATATGCTTGTACAAGTATCCATGGAGACCGATCACAGAGAGATAGAG TATACCATGAAGGATATGCTTGTACAAGTATCCATGGAGACCGATCACAGAGAGATAGAG Y H E G Y A C T S I H G D R S Q R D R E	CONTRACTOR OF THE PARTY OF THE
bDDX3Y-L bDDX3Y-S	AGGAAGCACTTCATCAGTTCCGCTCAGGAAAAAGCCCCAATTCTAGTGGCTACTGCTGTGG AGGAAGCACTTCATCAGTTCCGCTCAGGAAAAAGCCCCAATTCTAGTGGCTACTGCTGTGG E A L H Q F R S G K S P I L V A T A V A	1620 1620
bDDX3Y-L bDDX3Y-S	CAGCAAGAGGACTAGACATTTCAAATGTGAAACATGTCATCAATTTTGATTTGCCAGGTG CAGCAAGAGGACTAGACATTTCAAATGTGAAACATGTCATCAATTTTGATTTGCCAGGTG A R G L D I S N V K H V I N F D L P G D	CRYS-VEIOS
bDDX3Y-L bDDX3Y-S	ATATTGAGGAATATGTACATCGGATTGGCCGTACAGGACGTGTAGGAAACCTTGGTCTTG ATATTGAGGAATATGTACATCGGATTGGCCGTACAGGACGTGTAGGAAACCTTGGTCTTG I E E Y V H R I G R T G R V G N L G L A	F18920
bDDX3Y-L bDDX3Y-S	CCACCTCATTTTTCAATGAAAGAATATAAATATCTCAAAAGATTTGTTGGATCTTCTTG CCACCTCATTTTTCAATGAAAGAATATAAATATCTCAAAAGATTTGTTGGATCTTCTTG T S F F N E R N I N I S K D L L D L L V	33333
bDDX3Y-L bDDX3Y-S	TTGAAGCCAAACAAGAAGTGCCATCTTGGTTAGAAAACATGGCTTATGAACACCACTATA TTGAAGCCAAACAAGAAGTGCCATCTTGGTTAGAAAACATGGCTTATGAACACCACTATA E A K Q E V P S W L E N M A Y E H H Y K	CR. 25.00
bDDX3Y-L bDDX3Y-S	AGAGTAGCAATCGTGGCCGTTCTAGGAGATTCAGTGGAGGCTTTGGTGCCCGTGATTATC AGAGTAGCAATCGTGGCCGTTCTAGGAGATTCAGTGGAGGCTTTGGTGCCCGTGATTATC S S N R G R S R R F S G G F G A R D Y R	FEB.
bDDX3Y-L bDDX3Y-S	GACAAAGTAGCAGTTCTGGCAGTTTCAGCTATAGTAGTGGTCGTGCAGGCAG	PER PER
bDDX3Y-L bDDX3Y-S	GTGGTGGAGGTGCTCATGGCAGCAGCAGAGGATTTGGTGGAGGTAGTGGCTATGGAGGCT GTGGTGGAGGTGCTCATGGCAGCAGCAGCAGGATTTGGTGGAGGTGGCTATGGAGGCT G G G A H G S S R G F G G S G Y G G F	2040 2037
bDDX3Y-L bDDX3Y-S	TCTACAGTAGTGAAGGATATGGCGGAAATTACAGCTCTCAGGGGGTTGACTGGTGGGGCA TCTACAGTAGTGAAGGATATGGCGGAAATTACAGCTCTCAGGGGGTTGACTGGTGGGGCA Y S S E G Y G G N Y S S Q G V D W W G N	175-532-559
bDDX3Y-L bDDX3Y-S	ACTGAATCTGCTTTCCAGCCAAGTCACTTAAAAAAAAGCTACAATGGAAACCACATGTAA ACTGAATCTGCTTTCCAGCCAAGTCACTTAAAAAAAAAGCTACAATGGAAACCACA	CHOCK THE SE
bDDX3Y-L bDDX3Y-S	CTTTGCCAGATTGTTTTGTGTATAAAGGAGATCTTGTAGTGCATTACCCATAGTGATTCT	2220 2179
bDDX3Y-L bDDX3Y-S bDDX3Y-L	TGGTTTGAAAACTTAATTGCTGTAGTTTGGATGAACTCCCCTCTGCTTGTTTCCACCCCA	9960V11
bDDX3Y-S bDDX3Y-L bDDX3Y-S	AACTGCATTTATAATTTTGTGATTGAGGATCATTTGTTTG	2400
bDDX3Y-L bDDX3Y-S	AGACAGATTATTTGATGTCCGTTGGCTCAGTAATGCTCAAGTTTTCAGTTGTTCATGA	2460
bDDX3Y-L bDDX3Y-S	AATAAGTTCACTAAATTTGGGCTAAGATCACACCTTGGCACACAGATGTGATACAACTTA	(0100000
bDDX3Y-L bDDX3Y-S bDDX3Y-L	CTTGCATTGGACTTAATGTTTGGAGATTGGGGAGAAAAATACCTTACAGCAGAATTCCCT	107679233
bDDX3Y-S bDDX3Y-L bDDX3Y-S	TCTGATGTGGCAAACTGTACTAATTTAACTTTGTATTTGCTCATTCTATCTGGATAGGCA	2700
bDDX3Y-L bDDX3Y-S	TTTATAGTCTATAAATAAGCCATTCTGGTCATGATAAGATTACATGTATGAATACATCCA	2760
bDDX3Y-L bDDX3Y-S	TATATTITC 2769	