

Supplementary Table 1

AnclId	Desc1	Desc2	Branch Length 1	Branch Length 2
431	lcl MN988668.1 prot QHO62107.1	lcl MN975262.1 prot QHN73810.1	0	0
432		431 lcl MN988669.1 prot QHO62112.1	0	0
433		432 lcl MN988713.1 prot QHO62877.1	0	0
434		433 lcl MN994467.1 prot QHQ71963.1	0	0
435		434 lcl MN994468.1 prot QHQ71973.1	0	0
436		435 lcl MN997409.1 prot QHQ82464.1	0	0
437		436 lcl MT019529.1 prot QHU36824.1	0	0
438		437 lcl MT019530.1 prot QHU36834.1	0	0
439		438 lcl MT019531.1 prot QHU36844.1	0	0
440		439 lcl MT019532.1 prot QHU36854.1	0	0
441		440 lcl MT019533.1 prot QHU36864.1	0	0
442		441 lcl MT020880.1 prot QHU79194.1	0	0
443		442 lcl MT020881.1 prot QHU79204.1	0	0
444		443 lcl MT027062.1 prot QHW06039.1	0	0
445		444 lcl MT027063.1 prot QHW06049.1	0	0
446		445 lcl MT039873.1 prot QHZ00358.1	0	0
447		446 lcl MT039887.1 prot QHZ00389.1	0	0
448		447 lcl MT039888.1 prot QHZ00399.1	0	0
449		448 lcl MT044257.1 prot QHZ87582.1	0	0
450		449 lcl MT044258.1 prot QHZ87592.1	0	0
451		450 lcl MT106052.1 prot QID21048.1	0	0
452		451 lcl MT106053.1 prot QID21058.1	0	0
453		452 lcl MT106054.1 prot QID21068.1	0	0
454		453 lcl MT118835.1 prot QID98794.1	0	0
455		454 lcl LC528232.1 prot BCA87361.1	0	0
456		455 lcl LC528233.1 prot BCA87371.1	0	0
457		456 lcl MT159705.1 prot QII57168.1	0	0
458		457 lcl MT159706.1 prot QII57178.1	0	0
459		458 lcl MT159707.1 prot QII57188.1	0	0
460		459 lcl MT159708.1 prot QII57198.1	0	0
461		460 lcl MT159709.1 prot QII57208.1	0	0
462		461 lcl MT159710.1 prot QII57218.1	0	0
463		462 lcl MT159711.1 prot QII57228.1	0	0
464		463 lcl MT159712.1 prot QII57238.1	0	0
465		464 lcl MT159713.1 prot QII57248.1	0	0
466		465 lcl MT159714.1 prot QII57258.1	0	0
467		466 lcl MT159715.1 prot QII57268.1	0	0
468		467 lcl MT159717.1 prot QII57288.1	0	0
469		468 lcl MT159718.1 prot QII57298.1	0	0
470		469 lcl MT159719.1 prot QII57308.1	0	0
471		470 lcl MT159720.1 prot QII57318.1	0	0
472		471 lcl MT159721.1 prot QII57328.1	0	0
473		472 lcl MT159722.1 prot QII57338.1	0	0
474		473 lcl LC529905.1 prot BCB15090.1	0	0
475		474 lcl MT184907.1 prot QIJ96463.1	0	0
476		475 lcl MT184908.1 prot QIJ96473.1	0	0
477		476 lcl MT184909.1 prot QIJ96483.1	0	0
478		477 lcl MT184911.1 prot QIJ96503.1	0	0
479		478 lcl MT184912.1 prot QIJ96513.1	0	0
480		479 lcl MT184913.1 prot QIJ96523.1	0	0
481		480 lcl MT188339.1 prot QIK02944.1	0	0
482		481 lcl MT188340.1 prot QIK02954.1	0	0
483		482 lcl MT188341.1 prot QIK02964.1	0	0
484		483 lcl MN908947.3 prot QHD43416.1	0	0
485		484 lcl MN996527.1 prot QHR63250.2	0	0
486		485 lcl MN996528.1 prot QHR63260.2	0	0
487		486 lcl MN996529.1 prot QHR63270.2	0	0
488		487 lcl MN996530.1 prot QHR63280.2	0	0
489		488 lcl MN996531.1 prot QHR63290.2	0	0
490		489 lcl MN985325.1 prot QHO60594.1	0	0
491		490 lcl LC534418.1 prot BCB97891.1	0	0

492	491	lcl LC534419.1 prot BCB97901.1	0	0
493	492	lcl NC 045512.2 prot YP 009724	0	0
494	493	lcl MT233526.1 prot QIQ50182.1	0	0
495	494	lcl MT246667.1 prot QIQ50192.1	0	0
496	495	lcl MT066156.1 prot QIA98554.1	0	0
497	496	lcl MT066175.1 prot QIA98596.1	0	0
498	497	lcl MT066176.1 prot QIA98606.1	0	0
499	498	lcl MT072688.1 prot QIB84673.1	0	0
500	499	lcl MT123290.1 prot QIE07451.1	0	0
501	500	lcl MT126808.1 prot QIG55994.1	0	0
502	501	lcl MT152824.1 prot QIH55221.1	0	0
503	502	lcl MT093631.2 prot QIC53213.1	0	0
504	503	lcl MT123291.2 prot QIE07461.1	0	0
505	504	lcl MT123292.2 prot QIE07471.1	0	0
506	505	lcl MT123293.2 prot QIE07481.1	0	0
507	506	lcl MT192759.1 prot QIK50417.1	0	0
508	507	lcl MT192772.1 prot QIK50438.1	0	0
509	508	lcl MT192773.1 prot QIK50448.1	0	0
510	509	lcl MT233519.1 prot QIQ08790.1	0	0
511	510	lcl MT233523.1 prot QIQ08830.1	0	0
512	511	lcl MT240479.1 prot QIQ22760.1	0	0
513	512	lcl MT246452.1 prot QIQ49792.1	0	0
514	513	lcl MT246454.1 prot QIQ49812.1	0	0
515	514	lcl MT246455.1 prot QIQ49822.1	0	0
516	515	lcl MT246457.1 prot QIQ49842.1	0	0
517	516	lcl MT246458.1 prot QIQ49852.1	0	0
518	517	lcl MT246459.1 prot QIQ49862.1	0	0
519	518	lcl MT246462.1 prot QIQ49892.1	0	0
520	519	lcl MT246464.1 prot QIQ49912.1	0	0
521	520	lcl MT246466.1 prot QIQ49932.1	0	0
522	521	lcl MT246468.1 prot QIQ49952.1	0	0
523	522	lcl MT246469.1 prot QIQ49962.1	0	0
524	523	lcl MT246471.1 prot QIQ49982.1	0	0
525	524	lcl MT246472.1 prot QIQ49992.1	0	0
526	525	lcl MT246473.1 prot QIQ50002.1	0	0
527	526	lcl MT246474.1 prot QIQ50012.1	0	0
528	527	lcl MT246475.1 prot QIQ50022.1	0	0
529	528	lcl MT246476.1 prot QIQ50032.1	0	0
530	529	lcl MT246477.1 prot QIQ50042.1	0	0
531	530	lcl MT246478.1 prot QIQ50052.1	0	0
532	531	lcl MT246479.1 prot QIQ50062.1	0	0
533	532	lcl MT246485.1 prot QIQ50122.1	0	0
534	533	lcl MT246486.1 prot QIQ50132.1	0	0
535	534	lcl MT246489.1 prot QIQ50162.1	0	0
536	535	lcl MT251972.1 prot QIQ68464.1	0	0
537	536	lcl MT251975.1 prot QIQ68494.1	0	0
538	537	lcl MT251977.1 prot QIQ68514.1	0	0
539	538	lcl MT251978.1 prot QIQ68524.1	0	0
540	539	lcl MT251980.1 prot QIQ68544.1	0	0
541	540	lcl MT253696.1 prot QIQ68554.1	0	0
542	541	lcl MT253697.1 prot QIQ68564.1	0	0
543	542	lcl MT253698.1 prot QIQ68574.1	0	0
544	543	lcl MT253699.1 prot QIQ68584.1	0	0
545	544	lcl MT253700.1 prot QIQ68594.1	0	0
546	545	lcl MT253701.1 prot QIQ68604.1	0	0
547	546	lcl MT253702.1 prot QIQ68614.1	0	0
548	547	lcl MT253703.1 prot QIQ68624.1	0	0
549	548	lcl MT253704.1 prot QIQ68634.1	0	0
550	549	lcl MT253705.1 prot QIQ68644.1	0	0
551	550	lcl MT253706.1 prot QIQ68654.1	0	0
552	551	lcl MT253707.1 prot QIQ68664.1	0	0
553	552	lcl MT253708.1 prot QIQ68674.1	0	0
554	553	lcl MT253709.1 prot QIQ68684.1	0	0
555	554	lcl MT253710.1 prot QIQ68694.1	0	0
556	555	lcl MT258377.1 prot QIS30065.1	0	0

557	556	lcl MT259237.1 prot QIS30175.1	0	0
558	557	lcl MT259241.1 prot QIS30215.1	0	0
559	558	lcl MT259245.1 prot QIS30255.1	0	0
560	559	lcl MT259247.1 prot QIS30275.1	0	0
561	560	lcl MT259252.1 prot QIS30325.1	0	0
562	561	lcl MT259254.1 prot QIS30345.1	0	0
563	562	lcl MT259257.1 prot QIS30375.1	0	0
564	563	lcl MT259266.1 prot QIS30465.1	0	0
565	564	lcl MT259267.1 prot QIS30475.1	0	0
566	565	lcl MT259268.1 prot QIS30485.1	0	0
567	566	lcl MT259269.1 prot QIS30495.1	0	0
568	567	lcl MT259271.1 prot QIS30515.1	0	0
569	568	lcl MT259274.1 prot QIS30545.1	0	0
570	569	lcl MT259275.1 prot QIS30555.1	0	0
571	570	lcl MT259280.1 prot QIS30605.1	0	0
572	571	lcl MT259283.1 prot QIS30635.1	0	0
573	572	lcl MT259285.1 prot QIS30655.1	0	0
574	573	lcl MT259287.1 prot QIS30675.1	0	0
575	574	lcl MT262993.1 prot QIS60276.1	0	0
576	575	lcl MT262896.1 prot QIS60299.1	0	0
577	576	lcl MT262897.1 prot QIS60309.1	0	0
578	577	lcl MT262898.1 prot QIS60319.1	0	0
579	578	lcl MT262899.1 prot QIS60329.1	0	0
580	579	lcl MT262900.1 prot QIS60339.1	0	0
581	580	lcl MT262901.1 prot QIS60349.1	0	0
582	581	lcl MT262902.1 prot QIS60359.1	0	0
583	582	lcl MT262903.1 prot QIS60369.1	0	0
584	583	lcl MT262904.1 prot QIS60379.1	0	0
585	584	lcl MT262905.1 prot QIS60389.1	0	0
586	585	lcl MT262906.1 prot QIS60399.1	0	0
587	586	lcl MT262907.1 prot QIS60409.1	0	0
588	587	lcl MT262908.1 prot QIS60419.1	0	0
589	588	lcl MT262909.1 prot QIS60429.1	0	0
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591	590	lcl MT262911.1 prot QIS60449.1	0	0
592	591	lcl MT262912.1 prot QIS60459.1	0	0
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595	594	lcl MT262916.1 prot QIS60499.1	0	0
596	595	lcl MT263381.1 prot QIS60510.1	0	0
597	596	lcl MT263382.1 prot QIS60522.1	0	0
598	597	lcl MT263383.1 prot QIS60534.1	0	0
599	598	lcl MT263386.1 prot QIS60570.1	0	0
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602	601	lcl MT263396.1 prot QIS60690.1	0	0
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604	603	lcl MT263398.1 prot QIS60714.1	0	0
605	604	lcl MT263399.1 prot QIS60726.1	0	0
606	605	lcl MT263400.1 prot QIS60738.1	0	0
607	606	lcl MT263401.1 prot QIS60750.1	0	0
608	607	lcl MT263404.1 prot QIS60786.1	0	0
609	608	lcl MT263405.1 prot QIS60798.1	0	0
610	609	lcl MT263410.1 prot QIS60858.1	0	0
611	610	lcl MT263419.1 prot QIS60966.1	0	0
612	611	lcl MT263421.1 prot QIS60990.1	0	0
613	612	lcl MT263422.1 prot QIS61002.1	0	0
614	613	lcl MT263423.1 prot QIS61014.1	0	0
615	614	lcl MT263424.1 prot QIS61026.1	0	0
616	615	lcl MT263425.1 prot QIS61038.1	0	0
617	616	lcl MT263429.1 prot QIS61086.1	0	0
618	617	lcl MT263430.1 prot QIS61098.1	0	0
619	618	lcl MT263434.1 prot QIS61146.1	0	0
620	619	lcl MT263435.1 prot QIS61158.1	0	0
621	620	lcl MT263440.1 prot QIS61218.1	0	0

622	621	lcl MT263441.1	prot QIS61230.1	0	0
623	622	lcl MT263444.1	prot QIS61266.1	0	0
624	623	lcl MT263447.1	prot QIS61302.1	0	0
625	624	lcl MT263448.1	prot QIS61314.1	0	0
626	625	lcl MT263449.1	prot QIS61326.1	0	0
627	626	lcl MT263451.1	prot QIS61350.1	0	0
628	627	lcl MT263452.1	prot QIS61362.1	0	0
629	628	lcl MT263454.1	prot QIS61386.1	0	0
630	629	lcl MT263455.1	prot QIS61398.1	0	0
631	630	lcl MT263456.1	prot QIS61410.1	0	0
632	631	lcl MT263458.1	prot QIS61434.1	0	0
633	632	lcl MT263462.1	prot QIS61482.1	0	0
634	633	lcl MT263463.1	prot QIS61494.1	0	0
635	634	lcl MT263464.1	prot QIS61506.1	0	0
636	635	lcl MT263469.1	prot QIS61566.1	0	0
637	636	lcl MT276324.1	prot QIT06891.1	0	0
638	637	lcl MT276325.1	prot QIT06903.1	0	0
639	638	lcl MT276326.1	prot QIT06915.1	0	0
640	639	lcl MT276328.1	prot QIT06939.1	0	0
641	640	lcl MT276331.1	prot QIT06975.1	0	0
642	641	lcl MT276597.1	prot QIT06987.1	0	0
643	642	lcl MT292571.1	prot QIU78731.1	0	0
644	643	lcl MT292572.1	prot QIU78743.1	0	0
645	644	lcl MT292573.1	prot QIU78755.1	0	0
646	645	lcl MT292574.1	prot QIU78767.1	0	0
647	646	lcl MT292576.1	prot QIU78791.1	0	0
648	647	lcl MT292577.1	prot QIU78803.1	0	0
649	648	lcl MT293156.1	prot QIU80925.1	0	0
650	649	lcl MT293157.1	prot QIU80937.1	0	0
651	650	lcl MT293159.1	prot QIU80961.1	0	0
652	651	lcl MT293163.1	prot QIU81009.1	0	0
653	652	lcl MT293166.1	prot QIU81045.1	0	0
654	653	lcl MT293168.1	prot QIU81069.1	0	0
655	654	lcl MT293169.1	prot QIU81081.1	0	0
656	655	lcl MT293170.1	prot QIU81093.1	0	0
657	656	lcl MT293179.1	prot QIU81201.1	0	0
658	657	lcl MT293181.1	prot QIU81225.1	0	0
659	658	lcl MT293183.1	prot QIU81249.1	0	0
660	659	lcl MT293184.1	prot QIU81261.1	0	0
661	660	lcl MT293185.1	prot QIU81273.1	0	0
662	661	lcl MT293186.1	prot QIU81285.1	0	0
663	662	lcl MT293187.1	prot QIU81297.1	0	0
664	663	lcl MT293188.1	prot QIU81309.1	0	0
665	664	lcl MT293190.1	prot QIU81333.1	0	0
666	665	lcl MT293192.1	prot QIU81357.1	0	0
667	666	lcl MT293194.1	prot QIU81381.1	0	0
668	667	lcl MT293199.1	prot QIU81441.1	0	0
669	668	lcl MT293202.1	prot QIU81477.1	0	0
670	669	lcl MT293203.1	prot QIU81489.1	0	0
671	670	lcl MT293206.1	prot QIU81525.1	0	0
672	671	lcl MT293210.1	prot QIU81573.1	0	0
673	672	lcl MT293216.1	prot QIU81645.1	0	0
674	673	lcl MT293218.1	prot QIU81669.1	0	0
675	674	lcl MT293225.1	prot QIU81753.1	0	0
676	675	lcl MT291826.1	prot QIU81765.1	0	0
677	676	lcl MT291827.1	prot QIU81777.1	0	0
678	677	lcl MT291828.1	prot QIU81789.1	0	0
679	678	lcl MT291829.1	prot QIU81801.1	0	0
680	679	lcl MT291830.1	prot QIU81813.1	0	0
681	680	lcl MT291831.1	prot QIU81825.1	0	0
682	681	lcl MT291832.1	prot QIU81837.1	0	0
683	682	lcl MT291833.1	prot QIU81849.1	0	0
684	683	lcl MT291834.1	prot QIU81861.1	0	0
685	684	lcl MT291835.1	prot QIU81873.1	0	0
686	685	lcl MT295464.1	prot QIU81898.1	0	0

687		686 lcl MT304474.1 prot QIV14984.1	0	0
688		687 lcl MT304475.1 prot QIV14996.1	0	0
689		688 lcl MT304476.1 prot QIV15008.1	0	0
690		689 lcl MT304480.1 prot QIV15056.1	0	0
691		690 lcl MT304481.1 prot QIV15068.1	0	0
692		691 lcl MT304482.1 prot QIV15080.1	0	0
693		692 lcl MT304483.1 prot QIV15092.1	0	0
694		693 lcl MT304487.1 prot QIV15140.1	0	0
695		694 lcl MT308703.1 prot QIV64977.1	0	0
696		695 lcl MT281530.1 prot QIU80900.1	0	0
697		696 lcl MT320891.1 prot QIX12195.1	0	0
698		697 lcl MN938384.1 prot QHN73795.1	0	0
699		698 lcl MT012098.1 prot QHS34546.1	1.608834964	1.608834964
700	lcl MT293160.1 prot QIU80973.1	lcl MT263443.1 prot QIS61254.1	1.602964916	1.602964916
701		700 lcl MT050493.1 prot QIA98583.1	0	1.602964916
702	lcl MT262915.1 prot QIS60489.1	lcl MT259253.1 prot QIS30335.1	1.601076668	1.601076668
703	lcl MT263384.1 prot QIS60546.1	lcl MT093571.1 prot QIC53204.1	1.600138468	1.600138468
704	lcl MT020781.2 prot QHU79173.2	lcl MT027064.1 prot QHW06059.1	0	0
705	lcl MT039890.1 prot QHZ00379.1	lcl MT007544.1 prot QHR84449.1	1.598281675	1.598281675
706	lcl MT259276.1 prot QIS30565.1	lcl MT259236.1 prot QIS30165.1	0	0
707		706 lcl MT263403.1 prot QIS60774.1	0	0
708		707 lcl MT263412.1 prot QIS60882.1	0	0
709		708 lcl MT263418.1 prot QIS60954.1	0	0
710		709 lcl MT293177.1 prot QIU81177.1	0	0
711		710 lcl MT293208.1 prot QIU81549.1	0	0
712	lcl MT263460.1 prot QIS61456.1	lcl MT263414.1 prot QIS60906.1	0	0
713	lcl MT295465.1 prot QIU81910.1		712 0	0
714		711	713 1.598353008	1.598353008
715	lcl MT259282.1 prot QIS30625.1	lcl MT259262.1 prot QIS30425.1	0	0
716	lcl MT246488.1 prot QIQ50152.1	lcl MT246461.1 prot QIQ49882.1	0	0
717		715	716 0.29153774	0.29153774
718	lcl MT259281.1 prot QIS30615.1	lcl MT259249.1 prot QIS30295.1	0.092371387	0.092371387
719		718 lcl MT192765.1 prot QIK50427.1	0	0.092371387
720		719 lcl MT246449.1 prot QIQ49762.1	0.000108962	0.092480349
721		720 lcl MT320538.1 prot QIX12148.1	0.000217924	0.092698272
722	lcl MT246451.1 prot QIQ49782.1	lcl MT246450.1 prot QIQ49772.1	0	0
723	lcl MT246453.1 prot QIQ49802.1		722 0	0
724	lcl MT246460.1 prot QIQ49872.1		723 0	0
725	lcl MT246467.1 prot QIQ49942.1		724 0	0
726	lcl MT246470.1 prot QIQ49972.1		725 0	0
727	lcl MT246480.1 prot QIQ50072.1		726 0	0
728	lcl MT246481.1 prot QIQ50082.1		727 0	0
729	lcl MT246484.1 prot QIQ50112.1		728 0	0
730	lcl MT246487.1 prot QIQ50142.1		729 0	0
731	lcl MT246490.1 prot QIQ50172.1		730 0	0
732	lcl MT251973.1 prot QIQ68474.1		731 0	0
733	lcl MT251974.1 prot QIQ68484.1		732 0	0
734	lcl MT251976.1 prot QIQ68504.1		733 0	0
735	lcl MT251979.1 prot QIQ68534.1		734 0	0
736	lcl MT258378.1 prot QIS30075.1		735 0	0
737	lcl MT258379.1 prot QIS30085.1		736 0	0
738	lcl MT258380.1 prot QIS30095.1		737 0	0
739	lcl MT258383.1 prot QIS30125.1		738 0	0
740	lcl MT259235.1 prot QIS30155.1		739 0	0
741	lcl MT259239.1 prot QIS30195.1		740 0	0
742	lcl MT259240.1 prot QIS30205.1		741 0	0
743	lcl MT259243.1 prot QIS30235.1		742 0	0
744	lcl MT259244.1 prot QIS30245.1		743 0	0
745	lcl MT259246.1 prot QIS30265.1		744 0	0
746	lcl MT259248.1 prot QIS30285.1		745 0	0
747	lcl MT259250.1 prot QIS30305.1		746 0	0
748	lcl MT259251.1 prot QIS30315.1		747 0	0
749	lcl MT259256.1 prot QIS30365.1		748 0	0
750	lcl MT259258.1 prot QIS30385.1		749 0	0
751	lcl MT259260.1 prot QIS30405.1		750 0	0

752	lcl MT259261.1	prot QIS30415.1	751	0	0
753	lcl MT259263.1	prot QIS30435.1	752	0	0
754	lcl MT259264.1	prot QIS30445.1	753	0	0
755	lcl MT259273.1	prot QIS30535.1	754	0	0
756	lcl MT259278.1	prot QIS30585.1	755	0	0
757	lcl MT259286.1	prot QIS30665.1	756	0	0
758	lcl MT263074.1	prot QIS60288.1	757	0	0
759	lcl MT263390.1	prot QIS60618.1	758	0	0
760	lcl MT263391.1	prot QIS60630.1	759	0	0
761	lcl MT263392.1	prot QIS60642.1	760	0	0
762	lcl MT263394.1	prot QIS60666.1	761	0	0
763	lcl MT263402.1	prot QIS60762.1	762	0	0
764	lcl MT263406.1	prot QIS60810.1	763	0	0
765	lcl MT263408.1	prot QIS60834.1	764	0	0
766	lcl MT263411.1	prot QIS60870.1	765	0	0
767	lcl MT263413.1	prot QIS60894.1	766	0	0
768	lcl MT263415.1	prot QIS60918.1	767	0	0
769	lcl MT263417.1	prot QIS60942.1	768	0	0
770	lcl MT263426.1	prot QIS61050.1	769	0	0
771	lcl MT263428.1	prot QIS61074.1	770	0	0
772	lcl MT263432.1	prot QIS61122.1	771	0	0
773	lcl MT263433.1	prot QIS61134.1	772	0	0
774	lcl MT263437.1	prot QIS61182.1	773	0	0
775	lcl MT263438.1	prot QIS61194.1	774	0	0
776	lcl MT263439.1	prot QIS61206.1	775	0	0
777	lcl MT263442.1	prot QIS61242.1	776	0	0
778	lcl MT263445.1	prot QIS61278.1	777	0	0
779	lcl MT263446.1	prot QIS61290.1	778	0	0
780	lcl MT263459.1	prot QIS61446.1	779	0	0
781	lcl MT263465.1	prot QIS61518.1	780	0	0
782	lcl MT263467.1	prot QIS61542.1	781	0	0
783	lcl MT263468.1	prot QIS61554.1	782	0	0
784	lcl MT276323.1	prot QIT06879.1	783	0	0
785	lcl MT276327.1	prot QIT06927.1	784	0	0
786	lcl MT276329.1	prot QIT06951.1	785	0	0
787	lcl MT276330.1	prot QIT06963.1	786	0	0
788	lcl MT276598.1	prot QIT06999.1	787	0	0
789	lcl MT292569.1	prot QIU78707.1	788	0	0
790	lcl MT292575.1	prot QIU78779.1	789	0	0
791	lcl MT293161.1	prot QIU80985.1	790	0	0
792	lcl MT293162.1	prot QIU80997.1	791	0	0
793	lcl MT293164.1	prot QIU81021.1	792	0	0
794	lcl MT293165.1	prot QIU81033.1	793	0	0
795	lcl MT293167.1	prot QIU81057.1	794	0	0
796	lcl MT293171.1	prot QIU81105.1	795	0	0
797	lcl MT293172.1	prot QIU81117.1	796	0	0
798	lcl MT293173.1	prot QIU81129.1	797	0	0
799	lcl MT293174.1	prot QIU81141.1	798	0	0
800	lcl MT293175.1	prot QIU81153.1	799	0	0
801	lcl MT293176.1	prot QIU81165.1	800	0	0
802	lcl MT293178.1	prot QIU81189.1	801	0	0
803	lcl MT293182.1	prot QIU81237.1	802	0	0
804	lcl MT293189.1	prot QIU81321.1	803	0	0
805	lcl MT293191.1	prot QIU81345.1	804	0	0
806	lcl MT293195.1	prot QIU81393.1	805	0	0
807	lcl MT293197.1	prot QIU81417.1	806	0	0
808	lcl MT293201.1	prot QIU81465.1	807	0	0
809	lcl MT293204.1	prot QIU81501.1	808	0	0
810	lcl MT293205.1	prot QIU81513.1	809	0	0
811	lcl MT293207.1	prot QIU81537.1	810	0	0
812	lcl MT293209.1	prot QIU81561.1	811	0	0
813	lcl MT293212.1	prot QIU81597.1	812	0	0
814	lcl MT293214.1	prot QIU81621.1	813	0	0
815	lcl MT293215.1	prot QIU81633.1	814	0	0
816	lcl MT293219.1	prot QIU81681.1	815	0	0

817	lcl MT293220.1 prot QIU81693.1	816	0	0
818	lcl MT293221.1 prot QIU81705.1	817	0	0
819	lcl MT293222.1 prot QIU81717.1	818	0	0
820	lcl MT293223.1 prot QIU81729.1	819	0	0
821	lcl MT304477.1 prot QIV15020.1	820	0	0
822	lcl MT304478.1 prot QIV15032.1	821	0	0
823	lcl MT304479.1 prot QIV15044.1	822	0	0
824	lcl MT304484.1 prot QIV15104.1	823	0	0
825	lcl MT304485.1 prot QIV15116.1	824	0	0
826	lcl MT304486.1 prot QIV15128.1	825	0	0
827	lcl MT304488.1 prot QIV15152.1	826	0	0
828	lcl MT304490.1 prot QIV15176.1	827	0	0
829	lcl MT304491.1 prot QIV15188.1	828	0	0
830	lcl MT308702.1 prot QIV64965.1	829	0	0
831	lcl MT308704.1 prot QIV64989.1	830	0	0
832	lcl MT308693.1 prot QIV65011.1	831	0	0
833	lcl MT308697.1 prot QIV65055.1	832	0	0
834	lcl MT308698.1 prot QIV65066.1	833	0	0
835	lcl MT308699.1 prot QIV65077.1	834	0	0
836	lcl MT308700.1 prot QIV65088.1	835	0	0
837	lcl MT300186.2 prot QIV14972.1	836	0	0
838	721	837	0.000435847	0.093134119
839	717	838	1.306815268	1.505218889
840	714	839	0	0
841	lcl MT263457.1 prot QIS61422.1	840	1.599224254	0.000871246
842	705	841	0.000942579	0
843	lcl MT226610.1 prot QIO04367.1	842	1.600148753	0.000924499
844	704	843	1.600148753	0
845	703	844	0.00094408	0.000933795
846	lcl MT293211.1 prot QIU81585.1	845	1.602021471	0.000938923
847	702	846	0.000944803	0
848	701	847	0	0.000943445
849	lcl MT291836.1 prot QIU81885.1	848	1.6039096	0.000944685
850	lcl MT263416.1 prot QIS60930.1	849	1.6039096	0
851	lcl MT263387.1 prot QIS60582.1	850	1.6048557	0.0009461
852	lcl MT263450.1 prot QIS61338.1	851	1.6048557	0
853	lcl MT184910.1 prot QIU96493.1	852	1.605802486	0.000946786
854	lcl MT263420.1 prot QIS60978.1	853	1.606749612	0.000947126
855	lcl MT159716.1 prot QII57278.1	854	1.606749612	0
856	lcl MT049951.1 prot QIA20044.1	855	1.607697463	0.000947851
857	699	856	0	0.001137501
858	857 lcl MT281577.1 prot QIU80913.1		2.391165036	4
859	858 QHR63300.2 spike glycoprotein Bat coronavirus RaTG13		65.15781124	69.15781124