CLUSTAL 2.1 multiple sequence alignment

KC470224.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470224.1 KC470223.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470225.1	
11017 022011	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470214.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470215.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470216.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470217.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470218.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470219.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470220.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470221.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470222.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470228.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470227.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470226.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470230.1	ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC
KC470229.1	$\tt ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC$
KX514433.1	$\tt ATGCATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC$
KU298886.1	$\tt ATGCATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC$
KC470213.1	$\tt ATGCATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCC$
	*** ***********************
KC470224.1	${\tt TCAAAATGAAATTCCGGTTGACCTTTTATGTCACGAGCAATTAAGCGACT}$
KC470223.1	TCAAAATGAAATTCCGGTTGACCTTTTATGTCACGAGCAATTAAGCGACT
KC470225.1	TCAAAATGACATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470214.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470215.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470216.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470217.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470218.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470219.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470220.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470221.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470222.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470228.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470227.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470226.1	TCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470230.1	CCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470229.1	CCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KX514433.1	CCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KU298886.1	CCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
KC470213.1	CCAAAATGAAATTCCGGTTGACCTTCTATGTCACGAGCAATTAAGCGACT
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CLUSTAL 2	. 1	multiple	sequence	alignment
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CLUSTAL 2.1 multiple sequence align	ment
KC470223.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470225.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470214.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470215.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470216.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470217.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470218.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470219.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470220.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470221.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470222.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470228.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470227.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470226.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470230.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470229.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KX514433.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KU298886.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA
KC470213.1	CAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCA

KC470224.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470223.1	GCCCGACGAGCCGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KC470225.1	GCCCGACGAGCCGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KC470214.1	GCCCGACGAGCCGAACCACAACGTCACAAATGTTGTGTATGTGTAA
KC470215.1	GCCCGACGAGCCGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KC470216.1	GCCCGACGAGCCGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KC470217.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470218.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470219.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470220.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470221.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470222.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470228.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470227.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470226.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470230.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KC470229.1	GCCCGACGAGCCGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
KX514433.1	GCCCGACGAGCTGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KU298886.1	GCCCGACGAGCTGAACCACAACGTCACAATGTTGTGTATGTGTTGTAA
KC470213.1	GCCCGACGAGCTGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAA
10170213.1	******* ******
KC470224.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470223.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470225.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470214.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC

CLUSTAL	2.1	multiple	sequence	alignment
KC470215	. 1			ርጥርጥር እ እር

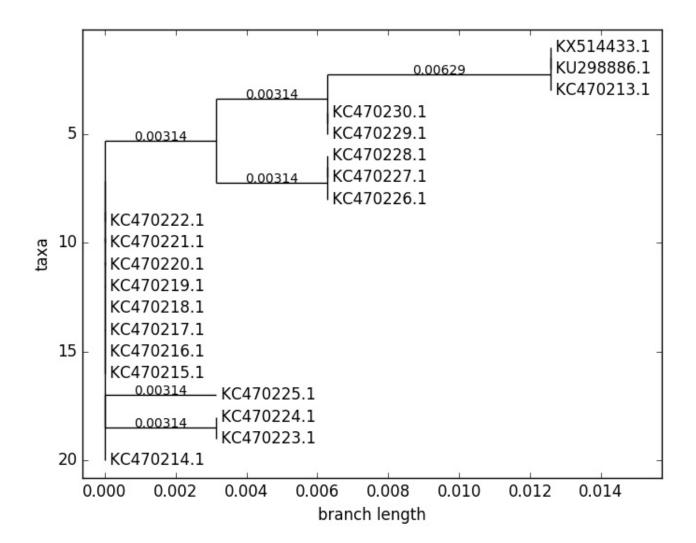
KC470215.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470216.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470217.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470218.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470219.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470220.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470221.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470222.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470228.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470227.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470226.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470230.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470229.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KX514433.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KU298886.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC
KC470213.1	GTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAGACGACCTTC

KC470224.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470223.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470225.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470214.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470215.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470216.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470217.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470218.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470219.1	GAGCATTCCAGCAGCTGTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470220.1	GAGCATTCCAGCAGCTGTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470221.1	GAGCATTCCAGCAGCTGTTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470222.1	GAGCATTCCAGCAGCTGTTCTGAGCACCCTGTCCTTTGTGTGTCCGTGG
KC470228.1	GAGCATTCCAGCAGCTGTTCTGAAAACCCTGTCCTTTGTGTGTCCGTGG
KC470227.1	GAGCATTCCAGCAGCTGTTCTGAAAACCCTGTCCTTTGTGTGTCCGTGG
KC470226.1	GAGCATTCCAGCAGCTGTTCTGAAAACCCTGTCCTTTGTGTGTCCGTGG
KC470230.1	GAGCATTCCAGCAGCTGTTTCTGAACACCCTGTCCTTTGTGTGTCCGTGG
KC470229.1	GAGCATTCCAGCAGCTGTTCTGAACACCCTGTCCTTTGTGTGTCCGTGG
KX514433.1	GAGCATTCCAGCAGCTGTTCTGAACACCCTGTCCTTTGTGTGTCCGTGG
KU298886.1	GAGCATTCCAGCAGCTGTTCTGAACACCCTGTCCTTTGTGTGTCCGTGG
KC470213.1	GAGCATTCCAGCAGCTGTTCTGAACACCCTGTCCTTTGTGTCCGTGG

KC470224.1	TGTGCATCCCAGCAGTAA
KC470223.1	TGTGCATCCCAGCAGTAA
KC470225.1	TGTGCATCCCAGCAGTAA
KC470214.1	TGTGCATCCCAGCAGTAA
KC470214.1 KC470215.1	TGTGCATCCCAGCAGTAA
KC470215.1 KC470216.1	TGTGCATCCCAGCAGTAA
KC470210.1	TGTGCATCCCAGCAGTAA
1.01/021/.1	TOTOCATCCCAGCAGTAA

CLUSTAL 2.1 multiple sequence alignment

KC470218.1	TGTGCATCCCAGCAGTAA
KC470219.1	TGTGCATCCCAGCAGTAA
KC470220.1	TGTGCATCCCAGCAGTAA
KC470221.1	TGTGCATCCCAGCAGTAA
KC470222.1	TGTGCATCCCAGCAGTAA
KC470228.1	TGTGCATCCCAGCAGTAA
KC470227.1	TGTGCATCCCAGCAGTAA
KC470226.1	TGTGCATCCCAGCAGTAA
KC470230.1	TGTGCATCCCAGCAGTAA
KC470229.1	TGTGCATCCCAGCAGTAA
KX514433.1	TGTGCATCCCAGCAGTAA
KU298886.1	TGTGCATCCCAGCAGTAA
KC470213.1	TGTGCATCCCAGCAGTAA



Consensus sequence

ATGTATGGACCTAAGGCAACATTGCAAGACATTGTATTGCATTTAGAGCCTCAAAATGAAATTCCGGTTGACCTTCTATGT
CACGAGCAATTAAGCGACTCAGAGGAAGAAAACGATGAAATAGATGGAGTTAATCATCAACATTTACCAGCCCGACGAGC
CGAACCACAACGTCACACAATGTTGTGTATGTGTTGTAAGTGTGAAGCCAGAATTGAGCTAGTAGTAGAAAGCTCAGCAG