**Supplemental Figure**

**Fig S1**. *norB* DNA sequence alignment by clustalW.

CLUSTAL W (1.83) multiple sequence alignment

NG\_NCCP11945 TTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGATTAAGTCGGGGG

NG\_FA1090 TTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGATTAAGTCGGGGG

uNM\_NM1 TTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGATTAAGTCGGGGG

NM\_LNP26948 TTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGACCAAGTCAGCTG

NM\_FAM18 TTATTTGTCGCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGACCAAGTCAGCTG

Nlac\_020-06 TTATTTGTCCCGGCCGAATACGATTTTAGTGGCTTGGATGGCAACGCAGATTGCACCGCCGATAAAGATCAAGTCGGCGG

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NG\_NCCP11945 CAGTGCGTACCCAGCGCAGGGTGTCGAGGATTTCCATTTGCAGGAATTCTTCGCTGCGGGCATACCACAAACCGTGCGTG

NG\_FA1090 CAGTGCGTACCCAGCGCAGGGTGTCGAGGATTTCCATTTGCAGGAATTCTTCGCTGCGGGCATACCACAAACCGTGCGTG

uNM\_NM1 CAGTGCGTACCCAGCGCAGGGTGTCGAGGATTTCCATTTGCAGGAATTCTTCGCTGCGGGCATACCACAAACCGTGCGTG

NM\_LNP26948 CCGTACGTACCCAACGCAAGGTGTCGAGGATTTCCATTTGCAGGAACTCTTCGCTGCGTGCATACCACAGGCGGTGCGTG

NM\_FAM18 CCGTACGTACCCAACGCAAGGTGTCGAGGATTTCCATTTGCAGGAACTCTTCGCTGCGTGCATACCACAGGCCGTGCGTG

Nlac\_020-06 CAGTACGAACCCAGCGCAGGGTGTCGAGGATTTCCATTTGCAGGAACTCTTCGCTGCGGGCATACCACAGACCGTGCGTG

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NG\_NCCP11945 ATAGAGGCGTATGCCTGAATCACGCCGACAGGCAGCAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAGCCA

NG\_FA1090 ATAGAGGCGTATGCCTGAATCACGCCGACAGGCAGCAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAGCCA

uNM\_NM1 ATAGAGGCGTATGCCTGAATCACGCCGACAGGCAGCAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAGCCA

NM\_LNP26948 ATGGAGGCGTATGCCTGAATCACGCCAACCGGCAACAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAGCCA

NM\_FAM18 ATGGAGGCGTATGCCTGAATCACGCCAACCGGCAACAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAGCCA

Nlac\_020-06 ATGGAGGCGTATGCCTGAATCGCGCCGACAGGCAGCAGGCTGATGGCAATCATACCGACCAAGCCGCCGTTGAGCAACCA

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NG\_NCCP11945 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACCGCGCGTTCGGTTTCAAGTAGCGCGCAACCAACAATACGAAGCCCAATG

NG\_FA1090 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACCGCGCGTTCGGTTTCAAGTAGCGCGCAACCAACAATACGAAGCCCAATG

uNM\_NM1 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACCGCGCGTTCGGTTTCAAGTAGCGCGCAACCAACAATACGAAGCCCAATG

NM\_LNP26948 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACTGCGCGTTCGGTTTCAAATAACGGGCAACCAGCAATACGAAGCCCAATG

NM\_FAM18 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACTGCGCGTTCGGTTTCAAATAACGGGCAACCAGCAATACGAAGCCCAATG

Nlac\_020-06 GAAGCCCCAAGTCATCAGTTTGTCGTCAAACTGCGCGTTCGGTTTCAAGTAGCGTGCAACCAGCAATACGAAGCCCAATG

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NG\_NCCP11945 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCGTGAACGGCGGAAGTGTTCAAACCTTGGATATAGAACAGGGAA

NG\_FA1090 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCGTGAACGGCGGAAGTGTTCAAACCTTGGATATAGAACAGGGAA

uNM\_NM1 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCGTGAACGGCGGAAGTGTTCAAACCTTGGATATAGAACAGGGAA

NM\_LNP26948 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCATGAACAGCAGAAGTATTCAAACCTTGGATATAGAACAGGGAA

NM\_FAM18 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCATGAACAGCAGAAGTATTCAAACCTTGGATATAGAACAGGGAA

Nlac\_020-06 CCAAGAAACCGTACACACCGAACAAGGCGGCGTGCGCGTGAACGGCAGAAGTGTTCAAACCTTGGATATAGAACAGGGAA

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NG\_NCCP11945 ATCGGCGGATTGATCAGAAAGCCGAATACGCCGGCACCGATCATATTCCAAAAAGCGACTGCCACGAAGCACATCAGCGG

NG\_FA1090 ATCGGCGGATTGATCAGAAAGCCGAATACGCCGGCACCGATCATATTCCAAAAAGCGACTGCCACGAAGCACATCAGCGG

uNM\_NM1 ATCGGCGGATTGATCAGAAAGCCGAATACGCCGGCACCGATCATATTCCAAAAAGCGACTGCCACGAAGCACAT**T**AGCGG

NM\_LNP26948 ATCGGCGGGTTAATCAGGAAACCGAATACACCGGCACCGATCATATTCCAAAAGGCGACTGCCACGAAGCACATCAGCGG

NM\_FAM18 ATCGGCGGGTTAATCAGGAAACCGAATACACCGGCACCGATCATATTCCAAAAGGCGACTGCCACGAAGCACATCAGCGG

Nlac\_020-06 ATCGGCGGATTGATCAGGAAGCCGAATACGCCGGCACCGATCATATTCCAAAAGGCGACTGCCACGAAGCACATCAGCGG

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NG\_NCCP11945 CCAACGCAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACCAGTGCTCGTATGCCTCGCGGCCCAGCAACACCAGCG

NG\_FA1090 CCAACGCAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACCAGTGCTCGTATGCCTCGCGGCCCAGCAACACCAGCG

uNM\_NM1 CCAACGCAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACCAGTGCTCGTATGCCTCGCGGCCCAGCAACACCAGCG

NM\_LNP26948 CCAACGCAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACCAATGCTCGTATGCTTCACGGCCCAGCAACACCAGCG

NM\_FAM18 CCAACGCAGGCGTTTCGCCCAGTCGGACAGGTGTTGGTAAGACCAATGCTCGTATGCTTCACGGCCCAGCAACACCAGCG

Nlac\_020-06 CCAACGCAGGCGTTTCGCCCAGTCGGACAGATGTTGGTAAGACCAATGCTCGTATGCTTCACGACCCAGCAACACCAGCG

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NG\_NCCP11945 GCACGACTTCCAAAGCGGAGAAGCAGGCGCCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

NG\_FA1090 GCACGACTTCCAAAGCGGAGAAGCAGGCGCCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

uNM\_NM1 GCACGACTTCCAAAGCGGAGAAGCAGGCGCCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

NM\_LNP26948 GCACGACTTCCAAAGCGGAGAAGCAGGCACCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

NM\_FAM18 GCACGACTTCCAAAGCGGAGAAGCAGGCACCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

Nlac\_020-06 GCACGACTTCCAAAGCGGAGAAGCAGGCGCCGATTGCCATAGAGGCGGAGGTAGAGCCGGAGAAGTACAGGTGGTGCAGC

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NG\_NCCP11945 GTGCCCGGAACGCCGCCCAACATAAAGATGGCGGCAGCGGCCAAAGTGGAGGCAGTGGCGGTACTGCGGCGGACAAAGCC

NG\_FA1090 GTGCCCGGAACGCCGCCCAACATAAAGATGGCGGCAGCGGCCAAAGTGGAGGCAGTGGCGGTACTGCGGCGGACAAAGCC

uNM\_NM1 GTGCCCGGAACGCCGCCCAACATAAAGATGGCGGCAGCGGCCAAAGTGGAGGCAGTGGCGGTACTGCGGCGGACAAAGCC

NM\_LNP26948 GTACCCGGAACGCCGCCCAACATAAAGATGGCGGCAGCGGCCAAAGTAGAAGCTGTGGCGGTACTGCGGCGGACAAAGCC

NM\_FAM18 GTACCCGGAACGCCGCCCAACATAAAGATGGCGGCAGCGGCCAGAGTAGAAGCTGTGGCGGTACTGCGGCGGACAAAGCC

Nlac\_020-06 GTACCGGGAACGCCGCCCAACATAAAGATGGCGGCAGCAGCCAAAGTGGAGGCAGTGGCGGTACTGCGGCGGACAAAGCC

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NG\_NCCP11945 CATATTGTAGAAGACAAAGGCAAAGGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGGACCACCCACC

NG\_FA1090 CATATTGTAGAAGACAAAGGCAAAGGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGGACCACCCACC

uNM\_NM1 CATATTGTAGAAGACAAAGGCAAAGGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGGACCACCCACC

NM\_LNP26948 CATATTGTAGAAGACAAATGCGAAGGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGAACCACCCACC

NM\_FAM18 CATATTGTAGAAGACAAAGGCAAAAGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGAACCACCCACC

Nlac\_020-06 CATATTGTAGAAGACAAAGGCAAAGGCGGCAGTGGCAAATACTTCAAAGAAGCCTTCCACCCACAGGTGAACCACCCACC

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NG\_NCCP11945 AACGCCAGTATTCCATTACGGCAATCGGGGATTTTTCGCCATAGAACAGGCCCGGTGCGTAGAACACGCCCACGCCGACC

NG\_FA1090 AACGCCAGTATTCCATTACGGCAATCGGGGATTTTTCGCCATAGAACAGGCCCGGTGCGTAGAACACGCCCACGCCGACC

uNM\_NM1 AACGCCAGTATTCCATTACGGCAATCGGGGATTTTTCGCCATAGAACAGGCCCGGTGCGTAGAACACGCCCACGCCGACC

NM\_LNP26948 AACGCCAGTATTCCATTACGGCAATCGGGGATTTCTCGCCATAGAACAGTCCCGGTGCGTAGAATACGCCCACACCGACC

NM\_FAM18 AACGCCAGTATTCCATTACGGCAATCGGGGATTTCTCGCCATAGAACAGTCCCGGTGCGTAGAATACGCCCACACCGACC

Nlac\_020-06 AGCGCCAGTATTCCATTACGGCAATCGGGGATTTTTCGCCATAGAACAGTCCCGGTGCGTAGAACACGCCCACACCGACC

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NG\_NCCP11945 ATAGAAGCGACAAAGATTGCCAGCAGGTTTTTGTCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAGCGCAACATCAG

NG\_FA1090 ATAGAAGCGACAAAGATTGCCAGCAAGTTTTTGTCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAGCGCAACATCAG

uNM\_NM1 ATAGAAGCGACAAAGATTGCCAGCAAGTTTTTGTCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAGCGCAACATCAG

NM\_LNP26948 ATAGAAGCGACAAAGATTGCCAGCAGGTTTTTGTCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAACGCAACATCAG

NM\_FAM18 ATAGAAGCGACAAAGATTGCCAGCAGGTTTTTGTCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAACGCAACATCAG

Nlac\_020-06 ATAGAAGCGACAAAGATTGCCAGCAGGTTTTTATCCACGCCTTTTTCTTTGAAGGCGGAAACCGTGCAGCGCAACATCAG

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NG\_NCCP11945 GAACAGCCACAACAGCAGTCCGACCATCAAAAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

NG\_FA1090 GAACAGCCACAACAGCAGTCCGACCATCAAAAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

uNM\_NM1 GAACAGCCACAACAGCAGTCCGACCATCAAAAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

NM\_LNP26948 GAACAGCCACAACAGCAGGCCGACCATCAGCAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

NM\_FAM18 GAACAGCCACAACAGCAGGCCGACCATCAGCAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

Nlac\_020-06 GAACAGCCACAACAGCAGGCCGACCATCAACAGGAGTTGCCAGAAACGTCCCAAATCGAGGTATTCGTAACCTTGGTGTC

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NG\_NCCP11945 CGAACCAGAAGTTAAATTCGGGGGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAACCGCCGACCACGATG

NG\_FA1090 CGAACCAGAAGTTAAATTCGGGAGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAACCGCCGACCACGATG

uNM\_NM1 CGAACCAGAAGTTAAATTCGGGAGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAACCGCCGACCACGATG

NM\_LNP26948 CGAACCAGAAGTTAAATTCCGGGGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAACCGCCGACCACGATG

NM\_FAM18 CGAACCAGAAGTTAAATTCCGGGGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAGCCGCCGACCACGATG

Nlac\_020-06 CGAACCAGAAGTTAAATTCGGGGGGAAGGATGTGCGTCAACGCGAAGAAGTTGCCCGCGTAAGAACCGCCGACCACGATA

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NG\_NCCP11945 AAGAGGGCGATATAGAGGAAGTTCACGCCTGCACGTTGGAACTTGGGATCTTTGCCGCCGTTGACAATCGGCGCGAGGAA

NG\_FA1090 AAGAGGGCGATATAGAGGAAGTTCACGCCTGCACGTTGGAACTTGGGATCTTTGCCGCCGTTGACAATCGGCGCGAGGAA

uNM\_NM1 AAGAGGGCGATATAGAGGAAGTTCACGCCTGCACGTTGGAACTTGGGATCTTTGCCGCCGTTGACAATCGGCGCGAGGAA

NM\_LNP26948 AAGAGGGCGATATAGAGGAAGTTTACGCCGGCACGTTGGAACTTGGGATCTTTACCGCCGTTGACAATCGGCGCGAGGAA

NM\_FAM18 AAGAGGGCGATATAGAGGAAGTTCACGCCTGCACGTTGGAACTTGGGATCTTTGCCGCCGTTGACAATCGGCGCAAGGAA

Nlac\_020-06 AACAGGGCGATATAGAGGAAGTTCACGCCTGCACGTTGGAACTTGGGATCTTTGCCGCCGTTGACAATCGGCGCGAGGAA

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NG\_NCCP11945 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCGGATTGGATGTGCCAAGTACGGGTCAGGGCGTAGGGGA

NG\_FA1090 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCGGATTGGATGTGCCAAGTACGGGTCAGGGCGTAGGGGA

uNM\_NM1 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCGGATTGGATGTGCCAAGTACGGGTCAGGGCGTAGGGGA

NM\_LNP26948 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCTGATTGGATGTGCCAAGTACGGGTCAGGGCATAAGGGA

NM\_FAM18 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCGGATTGGATGTGCCAAGTACGGGTCAGGGCGTAAGGGA

Nlac\_020-06 CAAACCTGCCGTCAAAAAGCCGGTTGCAATCCAGAAGATGGCGGATTGGATGTGCCAAGTACGGGTCAGGGCATAGGGGA

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NG\_NCCP11945 ACCAGTCGGACATTTCAAAGCCCAACGCCTCGTCAATGCCGTAGAAACCCTGACCTTCGACGGTGTAGTGCGCGGTCAGG

NG\_FA1090 ACCAGTCGGACATTTCAAAGCCCAACGCCTCGTCAATGCCGTAGAAACCCTGACCTTCGACGGTGTAGTGCGCGGTCAGG

uNM\_NM1 ACCAGTCGGACATTTCAAAGCCCAACGCCTCGTCAATGCCGTAGAAACCCTGACCTTCGACGGTGTAGTGCGCGGTCAGG

NM\_LNP26948 ACCAGTCGGACATTTCAAAGCCCAACGCTTCGTCGATGCCGTAGAAACCCTGGCCTTCGACGGTGTAGTGCGCGGTCAGT

NM\_FAM18 ACCAGTCGGACATTTCAAAGCCCAACGCCTCGTCAATGCCGTAGAAACCCTGACCTTCGACGGTGTAGTGCGCGGTCAGA

Nlac\_020-06 ACCAGTCGGACATTTCAAAGCCCAACGCCTCATCGATGCCGTAGAAACCCTGACCTTCGACGGTGTAGTGCGCGGTCAGA

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NG\_NCCP11945 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

NG\_FA1090 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

uNM\_NM1 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

NM\_LNP26948 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

NM\_FAM18 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

Nlac\_020-06 CCGCCCAGCAATACTTGTACCACAAACAGGGCGACCGTCAGGAAGACGTATTTGCCCAATGCTTTTTGCGAAGGGGTCAG

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NG\_NCCP11945 TTGGATTTTGGAAATCGGGTCTTCAGACGGCACTTCCACTTCCTCGTGTTTGGTCAGGAAGGAATAACCCCACATCAACA

NG\_FA1090 TTGGATTTTGGAAATCGGGTCTTCAGACGGCACTTCCACTTCCTCGTGTTTGGTCAGGAAGGAATAACCCCACATCAACA

uNM\_NM1 TTGGATTTTGGAAATCGGGTCTTCAGACGGCACTTCCACTTCCTCGTGTTTGGTCAGGAAGGAATAACCCCACATCAACA

NM\_LNP26948 TTGGATTTTGGAAATCGGGTCTTCAGACGGCACTTCCACTTCCTCGTGTTTGGTCAAGAAGGAATAACCCCACATCAGCA

NM\_FAM18 TTGGATTTTGGAAATCGGGTCTTCAGACGGCACTTCCACTTCCTCGTGTTTGGTCAGGAAGGAATAACCCCACATCAACA

Nlac\_020-06 TTGGATTTTGGAAATCGGATCTTCAGCCGGGATTTCCACTTCCTCGTGTTTGGTCAGGAAGGAATAACCCCACATCAGCA

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NG\_NCCP11945 AACCGATGCCCATCAAGAGCAGTACGACACTGGTAAACGACCACATGTAGTTTTCAGTAGTCGGTACATTGTTGATCAAA

NG\_FA1090 AACCGATGCCCATCAAGAGCAGTACGACACTGGTAAACGACCACATGTAGTTTTCAGTAGTCGGTACATTGTTGATCAAA

uNM\_NM1 AACCGATGCCCATCAAGAGCAGTACGACACTGGTAAACGACCACATGTAGTTTTCAGTAGTCGGTACATTGTTGATCAAA

NM\_LNP26948 AACCGATGCCCATCAGCAGAAGAACAACGCTGGTGAATGACCACATATAGTTTTCAGTGGTCGGTACGTTGTTGATCAAA

NM\_FAM18 AACCGATGCCCATCAGCAGAAGAACAACGCTGGTGAATGACCACATATAGTTTTCAGTGGTCGGTACGTTGTTGATCAAA

Nlac\_020-06 AACCGATGCCCATCAGCAGAAGAACAACGCTGGTAAACGACCACATATAGTTTTCAGTGGTCGGCACATTGTTGATCAAA

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NG\_NCCP11945 GGCTCGTGCGGCCAGTTGTTGGTGTAGGTAAAGACCTCGCCGGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAGAAGAA

NG\_FA1090 GGCTCGTGCGGCCAGTTGTTGGTGTAGGTAAAGACCTCGCCGGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAGAAGAA

uNM\_NM1 GGCTCGTGCGGCCAGTTGTTGGTGTAGGTAAAGACCTCGCCGGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAGAAGAA

NM\_LNP26948 GGCTCGTGCGGCCAGTTGTTGGTATAAGTGAACGTCTCGTCAGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAGAAGAA

NM\_FAM18 GGCTCGTGCGGCCAGTTGTTGGTATAAGTGAACGTCTCGTCAGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAGAAGAA

Nlac\_020-06 GGCTCGTGCGGCCAGTTGTTGGTGTAGGTAAAGACCTCGCCGGGACGGTTGGTCGAAGCAGACCAAGAAGTCCAAAAGAA

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NG\_NCCP11945 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

NG\_FA1090 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

uNM\_NM1 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

NM\_LNP26948 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

NM\_FAM18 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

Nlac\_020-06 GAAGTCGAACAGTTTTTCACGCGCTTCTTGGCTTGGCAATGTGTTGTTTTTCATTGCAAAGTGTTCGCGGGTGGTTTGCA

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NG\_NCCP11945 ACTTGGGATCATCGCCGTAAACGCCGTGATAGTAAGGCAGGATGCTTTCGATGGCTTTCACGCGCGTATCGCTGATGACG

NG\_FA1090 ACTTGGGATCATCGCCGTAAACGCCGTGATAGTAAGGCAGGATGCTTTCGATGGCTTTCACGCGCGTATCGCTGATGACG

uNM\_NM1 ACTTGGGATCATCGCCGTAAACGCCGTGATAGTAAGGCAGGATGCTTTCGATGGCTTTCACGCGC**A**TATCGCTGATGACG

NM\_LNP26948 GCGCGGGATCATCGCCGTAAACACCGTGGTAATAAGGCAGGATGCTTTCGATGGCTTTCACGCGCGTATCGCTGATGACG

NM\_FAM18 GCGCGGGATCATCGCCGTAAACACCGTGGTAATAAGGCAGGATGCTTTCGATGGCTTTCACGCGCGTATCGCTGATGACG

Nlac\_020-06 GCTTGGGATCGTCGCCGTAAACGCCGTGGTAATAAGGCAGGATGCTTTCGATGGCTTTCACGCGCGTATCGCTGATGACG

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NG\_NCCP11945 ACGCTGCCGTCTTCTTTAATACGGCTTTGATTGCGGTATTCATCGGCCAAGCGGGTTTTCAGAACGGCTTGTTCTTCAGG

NG\_FA1090 ACGCTGCCGTCTTCTTTAATACGGCTTTGATTGCGGTATTCATCGGCCAAGCGGGTTTTCAGAACGGCTTGTTCTTCAGG

uNM\_NM1 ACGCTGCCGTCTTCTTTAATACGGCTTTGATTGCGGTATTCATCGGCCAAGCGGGTTTTCAGAACGGCTTGTTCTTCAGG

NM\_LNP26948 ACGCTGCCGTCTTCTTTAATACGGCTTTGGTTGCGGTATTCGTCAGCCAGTCGGGTTTTCAGAACGGCTTGTTCTTCAGG

NM\_FAM18 ACGCTGCCGTCTTCTTTAATACGGCTTTGGTTGCGGTATTCGTCAGCCAGTCGGGTTTTCAGAACGGCTTGTTCTTCAGG

Nlac\_020-06 ACGCTGCCGTCTTCTTTCACACGGCTTTGGTTGCGGTATTCGTCAGCCAGGCGGGTTTTCAGAACGGCTTGTTCTTCAGG

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NG\_NCCP11945 GGAAACTTCATCGAATTTTTTGCCGTAAGCCTGTTGCGCGGTCAAATCCAACCAGGCGGACAACTCACGATGCAGCCAGT

NG\_FA1090 GGAAACTTCATCGAATTTTTTGCCGTAAGTCTGTTGCGCGGTCAAATCCAACCAGGCGGACAACTCACGATGCAGCCAGT

uNM\_NM1 GGAAACTTCATCGAATTTTTTGCCGTAAGCCTGTTGCGCGGTCAAATCCAACCAGGCGGACAACTCACGATGCAGCCAGT

NM\_LNP26948 GGAAACTTCATCGAATTTTTTGCCGTAAGTCTGTTGCGCGGTCAAATCCAACCAAGCGGACAACTCACGATGCAGCCAGT

NM\_FAM18 GGAAACTTCATCGAATTTTTTGCCGTAAGTCTGTTGCGCGGTCAAATCCAACTATGCAACCAACTCACGATGCAGCCAGT

Nlac\_020-06 GGAAACTTCATCAAATTTTTTGCCGTAAGTCTGTTGCGCGGTCAAATCCAACCAGGCAGACAACTCACGATGCAGCCAGT

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NG\_NCCP11945 CGGCCGTCCAATCCGGAGCCTGATATGCGCCGTGTCCCAGAATCGAACCGACTTCCATGCCGCCGGTAGTCTGCCACGCA

NG\_FA1090 CGGCCGTCCAGTCCGGAGCCTGATATGCGCCGTGACCCAGAATCGAACCGACTTCCATGCCGCCGGTACTCTGCCACGCA

uNM\_NM1 CGGCCGTCCAATCCGGAGCCTGATATGCGCCGTGTCCCAGAATCGAACCGACTTCCATGCCGCCGGTAGTCTGCCACGCA

NM\_LNP26948 CCGCCGTCCAGTCCGGAGCCTGATATGCGCCGTGACCCAGAATCGAACCGACTTCCATACCGCCGGTACTCTGCCACGCA

NM\_FAM18 CGGCCGTCCAGTCCGGAGCCTGATATGCGCCGTGACCCAGAATCGAACCGACTTCCATACCGCCGGTACTCTGCCACGCA

Nlac\_020-06 CGGCCGTCCAGTCCGGAGCCTGATATGCGCCGTGACCCAAAATCGAACCGACTTCCATACCGCCGGTACTCTGCCATGCA

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NG\_NCCP11945 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCTGATGCGGAAACGACCTGTTCGGGGTAAGGCGGGGC

NG\_FA1090 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCGGATGCGGAAACGACCTGTTCGGGGTAAGGCGGGGC

uNM\_NM1 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCGGATGCGGAAACGACCTGTTCGGGGTAAGGCGGGGC

NM\_LNP26948 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCTGATGCGGAAACGACCTGTTCGGGGTAAGGCGGGGC

NM\_FAM18 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCTGATGCGGAAACGACCTGTTCAGGGTAAGGCGGGGC

Nlac\_020-06 GACTGACCTGCCAAAATATCGTCTTTCGTCATCAGCACTTTGCCTGATGCGGAAACGACCTGTTCGGGATAAGGCGGGGC

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NG\_NCCP11945 TTTCTTATAAACCTCGCTGCCCATATAGCCAAGAATGGTAAAGCATACCGCCAGAACGGCAAACAGCAAGTACCACAGCT

NG\_FA1090 TTTCTTATAAACCTCGCTGCCCATATAGCCAAGAATGGTAAAGCATACCGCCAGAACGGCAAACAGCAAGTACCACAGCT

uNM\_NM1 TTTCTTATAAACCTCGCTGCCCATATAGCCAAGAATGGTAAAGCATACCGCCAGAACGGCAAACAGCAAGTACCACAGCT

NM\_LNP26948 TTTCTTATAAACCTCGCTGCCCATATAGCCAAGAATGGTAAAGCATACCGCCAGAACGGCAAACAGCAAGTACCACAGCT

NM\_FAM18 TTTTTTGTAAACCTCGCTGCCCATATAGCCAAGAATGGTAAAGCATACCGCCAGAACGGCAAACAGCAAGTACCATAGCT

Nlac\_020-06 TTTCTTATAAACCTCGCTGCCCATATAGCCGAGAATGGTAAAGCATACCGCCAGAACGGCGAACAGCAAGTACCACAGCT

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NG\_NCCP11945 TCTTGTACTGTCCCAT

NG\_FA1090 TCTTGTACTGTCCCAT

uNM\_NM1 TCTTGTACTGTCCCAT

NM\_LNP26948 TCTTGTACTGTCCCAT

NM\_FAM18 TCTTGTACTGTCCCAT

Nlac\_020-06 TCTTATACTGTCCCAT

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