

NIB-025 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type A1 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type A2 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type A3 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type C 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type D1 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type D2 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type D3 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type E 1 TGTCGATAAATAAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGTCTCGTTGG 60
 Type H 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type L 1 TGTCGATATCTTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCTTCTCAT 60
 Type L1 1 TGTCGATATCTTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCTTCTCAT 60
 Type M1 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type M2 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60
 Type V 1 TGTCGATATCTAAAAAGTAGACCTGTGAACACCGTGTTTAAACATGAACGTTGCCTCGTTGG 60

NIB-025 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type A1 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type A2 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type A3 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type C 61 GTTAGAGCAATCCA-CTCTTCGGGACACTGTGCCTAACCTGGTGCCTTGCACCTTGGTGGGCT 119
 Type D1 61 GTTAGAGCAATCCA-CTCTTCGGGACACTGTGCCTAACCTGGTGCCTTGCACCTTGGTGGGCT 119
 Type D2 61 GTTAGAGCAATCCA-CTCTTCGGGACACTGTGCCTAACCTGGTGCCTTGCACCTTGGTGGGCT 119
 Type D3 61 GTTAGAGCAATCCA-CTCTTCGGGACACTGTGCCTAACCTGGTGCCTTGCACCTTGGTGGGCT 119
 Type E 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type H 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type L 61 GCTAGAGCAATCTTGCTTGGCGGGGTGCTGTGCTTGCCCGGTGCTCGCACTAGGTGGGCT 120
 Type L1 61 GCTAGAGCAATCTTGCTTGGCGGGGTGCTGTGCTTGCCCGGTGCTCGCACTAGGTGGGCT 120
 Type M1 61 GCTGGAGCAATCCA-CTCTTCGTGGCATCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type M2 61 GCTGGAGCAATCCA-CTCTTCGTGACACCGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119
 Type V 61 GCTGGAGCAATCCA-CTCTTCGGGACACTGTGCCTGCCCGGTGCTTGCACCTTGGTGGGCT 119

NIB-025 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type A1 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGAAA GTAGCGTTGCTCCC CG 178
 Type A2 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type A3 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type C 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type D1 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type D2 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type D3 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC TG 175
 Type E 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type H 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type L 121 AACGAA TCCCGGCGCGGCAAGCGCCAAGGAAAACAAAAA TAGAA T--CGTTGC -CCC TT 176
 Type L1 121 AACGAA TCCCGGCGCGGCAAGCGCCAAGGAAAACAAAAA TAGAA T--CGTTGC -CCC TT 176
 Type M1 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type M2 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175
 Type V 120 AACGAAA CCCGGCGCGGCAAGCGCCAAGGAAAACAAAA-TGGAA G--CGTTGCTCCC CG 175

NIB-025 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type A1 179 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 238
 Type A2 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type A3 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type C 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type D1 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGAA GTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type D2 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGAA GTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type D3 176 TTA CTCCCGTT CGCGGTGTGGTTTTGGGGAA GTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type E 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type H 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type L 177 TGGCTCCCGT CGCGGTGTGGCCATGGGGATGCAGCGTATCTTGAAAGTCAAAAACGACTC 236
 Type L1 177 TGGCTCCCGT CGCGGTGTGGCCATGGGGATGCAGCGTATCTTGAAAGTCAAAAACGACTC 236
 Type M1 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type M2 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGATGTGATGTATCTTGAAAGTCAAAAACGACTC 235
 Type V 176 TGACTCCCGTT CGCGGTGTGGTTTTGGGGAA GTGATGTATCTTGAAAGTCAAAAACGACTC 235

NIB-025 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type A1 239 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 298
 Type A2 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type A3 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type C 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type D1 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type D2 236 TCGGCCAACGGATATCTCGGCTGACGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type D3 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type E 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type H 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type L 237 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 296
 Type L1 237 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 296
 Type M1 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type M2 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295
 Type V 236 TCGGCCAACGGATATCTCGGCTCTCGCATCGATGAAGAACGTAGCGAAATGCGATACTTGG 295

NIB-025 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type A1 299 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 358
 Type A2 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type A3 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type C 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type D1 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type D2 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type D3 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type E 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type H 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type L 297 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 356
 Type L1 297 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 356
 Type M1 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type M2 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355
 Type V 296 TGTGAATTGCAGAATCCCGTGAACCATCGAGTCTTTGAACGCAAGTTGCGCCCCGACGCCT 355

NIB-025 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type A1 359 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 409
 Type A2 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type A3 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type C 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AT 406
 Type D1 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AT 406
 Type D2 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AT 406
 Type D3 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AT 406
 Type E 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type H 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type L 357 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC TCCCC TCCCATTC CCTC 416
 Type L1 357 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC TCCCC TCCCATTC CCTC 416
 Type M1 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type M2 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC T-----AC 406
 Type V 356 TCGGGCTGAGGGCACGCCGTCCTGGGCGTCACGCATCGCGTGC CCCCC C-----AC 406

NIB-025 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464
 Type A1 410 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 467
 Type A2 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464
 Type A3 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type C 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type D1 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type D2 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type D3 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type E 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 465
 Type H 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464
 Type L 417 ACGGGTTTGGTTATGGGA-CGGATAATGGCATCCCGTT-AGCTCGGTTAGCCCAAAAAGG 474
 Type L1 417 ACGGGTTTGGTTATGGGA-CGGATAATGGCATCCCGTT-AGCTCGGTTAGCCCAAAAAGG 474
 Type M1 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464
 Type M2 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464
 Type V 407 ACCAAATTTGGTGAGGGGG-CGGATAATGGCATCCCGTT-AGCTCGGTTTGCCCAAAAAGG 464

NIB-025	465	ATCCCTCATCGATGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524
Type A1	468	ATCCCTCATCGATGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	527
Type A2	465	ATCCCTCATCGATGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524
Type A3	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	525
Type C	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTTGTTGTGC	525
Type D1	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTTGTTGTGC	525
Type D2	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTTGTTGTGC	525
Type D3	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTTGTTGTGC	525
Type E	466	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	525
Type H	465	ATCCCTCATCGATGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524
Type L	475	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTYGTTGTGC	534
Type L1	475	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGTTGTTGTGC	534
Type M1	465	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524
Type M2	465	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524
Type V	465	ATCCCTCATCGACGGATGTCACAACCAGTGGTGGTTGAAAGATCATTGGTGCCGTTGTGC	524

NIB-025	525	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579
Type A1	528	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAATGCGCCTT	582
Type A2	525	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579
Type A3	526	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	580
Type C	526	ATCACTCTGTTCGCATGCTTGGGCATCGTTATAAAAACAATGGTGC-TAACGCGCCTT	580
Type D1	526	ATCACTCTGTTCGCATGCTTGGGCATCGTTATAAAAACAATGGTGC-TAACGCGCCTT	580
Type D2	526	ATCACTCTGTTCGCATGCTTGGGCATCGTTATAAAAACAATGGTGC-TAACGCGCCTT	580
Type D3	526	ATCACTCTGTTCGCATGCTTGGGCATCGTTATAAAAACAATGGTGC-TAACGCGCCTT	580
Type E	526	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	580
Type H	525	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579
Type L	535	TTCACCCCTGTTCGCTTGCTAGGGCATCGTCATAAACTAACGGCGTGTAAATGCGCCTT	590
Type L1	535	TTCACCCCTGTTCGCTTGCTAGGGCATCGTCATAAACTAACGGCGTGTAAATGCGCCTT	590
Type M1	525	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579
Type M2	525	TTCACCTCTGTTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579
Type V	525	TTCACCTCCGTCGCATGCTTGGGCATCGTTACAAAACAATGGTGC-TAACGCGCCTT	579