

A

Rbe1 Optimized	ATGAAGATTACCAATACCCTGCTGAATGCGGCGGCGCTGCTGGCGGTTACCGAAGCGGCG
Rbe1 Original	ATGAAGATAACAAATACTTTACTTTAATGCTGCTGCATTATTAGCAGTCACAGAAGCTGCC
Rbe1 Optimized	ACCATCACCAGTTTTTCACGCGAGCACCCAGACCCTGTTCTGTGACCAGACCAGCCAA
Rbe1 Original	ACTATCACCAAATTCTTTACTGCCTCAACTCAAACCTCTTTTGTACCCAAACTAGTCAA
Rbe1 Optimized	ACCGTGGTTGCGACCAGAGCTTTTGTTGAGACCATCTACAGCGCTCCGCCGAAGCAGCTG
Rbe1 Original	ACCGTTGTGGCCACCAAATCATTGTGTTGAAACAATTTATTCAGCTCCACCAAAACAACTC
Rbe1 Optimized	ACCAGCAAAACCCAAGACAGCACCAGCCCCGACCACCAGCAGCGTGAACAGCCTGACCAGC
Rbe1 Original	ACTAGTAAAACTCAAGACTCTACCTCCCCAACTACTAGCTCCGTCAACTCATTAACCAGT
Rbe1 Optimized	AGCAGCGCGACCAGCTATGTGGAGACCACCACCCGCGCCGAGCAGCAGCACCCCTGACC
Rbe1 Original	AGTTCGGCCACTTCATATGTCGAAACTACAACCTCCAGCTCCATCTTCGTCAACTTTGACA
Rbe1 Optimized	ACCAGCACCATCAGCAGCAGCACCGCGAGCGAAGACAGCGATGCGACCCCGACCGCGGAT
Rbe1 Original	ACTTCCACTATATCTTCATCTACTGCTAGTGAAGATTCAGACGCTACACCTACCGCCGAT
Rbe1 Optimized	GTGGAGTTTGCGGAGGAAATTCTGAAGGAACACAACGTGAAACGTGCGCTGCATGGTGTT
Rbe1 Original	GTTGAATTTGCCGAGGAAATTTTGAAAGAACATAATGTCAAGAGAGCACTCCATGGTGTG
Rbe1 Optimized	CCGGCGCTGAGCTGGAGCAACAAGCTGGCGGAGTACGCGCAGGACTATGCGAACACCGGC
Rbe1 Original	CCTGCACTTAGTTGGAGTAACAAATTAGCCGAATACGCTCAAGATTACGCTAACACTGGA
Rbe1 Optimized	TTTGATTGCAGCAACCTGAACCTGAAACACAGCGGTGGCCCGTATGGTGAAAACCTGGCG
Rbe1 Original	TTCGATTGTAGCAATCTTAACTTGAAACATTCTGGTGGTCCATACGGTGAAAATTTGGCT
Rbe1 Optimized	GCGGGTTATATGGGTGGCATCAGCCCGGTTGACGCGTGGTACGATGAGATTAGCATGGTG
Rbe1 Original	GCTGGTTATATGGGTGGAATTAGTCCTGTTGATGCTTGGTATGATGAAATCTCCATGGTT
Rbe1 Optimized	GACTGGAACAACGTTGATTTACCGAAAGCACCGGTCACTTTACCCAGCTGGTGTTGGCGT
Rbe1 Original	GATTGGAACAATGTCGATTTCACTGAGTCTACCGGACACTTTACTCAACTTGATGGCGT
Rbe1 Optimized	AGCACCACCAAGTTGGCTGCGCGAAAATGATGTGCAGCACCGCGTGGCGTCAAATCACC
Rbe1 Original	AGTACCACTCAAGTTGGTTGTGCTAAAATGATGTGTTCTACTGCCTGGAGACAAATCACT
Rbe1 Optimized	GTGTGCGAATATCTGCCGCGTGGTAACGTTATTGGCCTGAATGTTACCAGCGGTATAGC
Rbe1 Original	GTTTGTGAATACTTGCCTCGTGGTAATGTCATTGGTTTGAATGTCACCTCAGGACACTCA
Rbe1 Optimized	TACTTCGTGGACAAATGTTCTGCCGCCGCTGAAATAA
Rbe1 Original	TACTTTGTTGACAACGTCTTGCCACCTTTAAAGTAA

B

Rbt4 Optimized Rbt4 Original	ATGAAGTTT AGCCAG GTT GCGACCACCGCGGCG ATTTTT GCGGGCCTG ACC ACCGCGGAG ATGAAGTTTTCTCAAGTTGCCACTACTGCTGCCATTTTTGCTGGTTTAACCACTGCTGAA
Rbt4 Optimized Rbt4 Original	ATTGCGTACGT GACCCAG ACCCGTGGCGTGACC GTTGGTGAA ACCGCG ACC TGGCGACC ATCGCCTATGTCACCCAGACTCGTGGTGTTACTGTTGGTGAAACTGCCACCGTTGCTACA
Rbt4 Optimized Rbt4 Original	ACCGTG ACCGTTGGT GCGACCGTTACCGGTGGCGGT CAGGTCAGATCAAG TGCAGCAA ACTGTTACCGTTGGTGCAACTGTCACAGGTGGTGGCCAAGGTCAAGATCAAGTTCAACAA
Rbt4 Optimized Rbt4 Original	AGCGCGGCGCCGGAGGCG GATGATATC CAGCAAAGCGCG GTT CCGGAA GCGGACGATATT TCAGCTGCTCCAGAAGCTGATGATATCCAACAATCAGCTGTTCCAGAAGCTGATGATATC
Rbt4 Optimized Rbt4 Original	CAGCAAAGCGTG GTT CCGGAAGCGGAGCCGACCGCG GAT GCGGATGGCGGT AACGGTATC CAACAATCAGTTGTTCCAGAAGCTGAACCCACTGCCGATGCTGATGGTGGTAATGGTATT
Rbt4 Optimized Rbt4 Original	GCGATTACCGAGGTGTT CACCACC ACCATCATGGGCCAA GAAATTGTG TAT AGCGGC GTT GCAATTACCGAAGTCTTTACCACTACCATTATGGGTCAAGAGATTGTTTATTCCGGTGTT
Rbt4 Optimized Rbt4 Original	TACTATAGCTACGGCGAG GAAC CAC ACCTAT GGCGACGTG CAAGTT CAGACCCTGACCATC TATTACAGTTATGGTGAAGAACATACCTATGGAGACGTTCAAGTTCAAACCTCACTATT
Rbt4 Optimized Rbt4 Original	GGCGGTGGCGGT TTTT CCGAGCGACGATCAGTACCCGACCACCGAG GTTTCT GCGGAAGCG GGGGGTGGCGGCTTCCTTCAGATGACCAATATCCTACAACCTGAAGTTTCTGCTGAGGCT
Rbt4 Optimized Rbt4 Original	AGCCCGAGCGCGGTGACCACCAGCAGCGCG GTT GCGACCCGGATGCGAAGGTGCCG GAC AGTCCATCTGCTGTTACTACTTCTTCTGCTGTTGCTACTCCTGACGCCAAAGTCCAGAC
Rbt4 Optimized Rbt4 Original	AGCACC AAA GATGCGAGC CAAC CGGCGGCGACCACCGGAGCGGTAGCAGCAGCGGTAGC TCTACTAAAGACGCTTCTCAACCGCTGCTACTACAGCTAGTGGCTCCTCTTCTGGTAGT
Rbt4 Optimized Rbt4 Original	AACGAC TT CAGCGGTGTTAAG GATACCAAATTT GCGCAGCAAATTCTGGACGCG CACAAC AATGACTTTAGTGGTGTTAAAGATACCAAATTTGCTCAACAAATTTGGATGCTCACAAC
Rbt4 Optimized Rbt4 Original	CAGAAGCGTGCGCGT CATGGT GTGCCGGACCTGACCT TGGGAT GCGACC GTTTACCAATAT CAAAAACGTGCTAGACATGGTGTTCAGATTTGACTTGGGATGCTACTGTTTACCAATAT
Rbt4 Optimized Rbt4 Original	GCGCAGAAGTTCGCG GATCAATAC AGCTGCAGC GGTAAC CTGCAGCACAGCGGC GGTAAA GCTCAAAAATTTGCTGATCAATACAGTTGTTCTGGTAACCTGCAACACTCTGGTGGTAAA
Rbt4 Optimized Rbt4 Original	TACGGC GAAAAC CTGGCG GTT GGC TAT GCG GATGGT GCGGCGGCGCTGCAGGCG TGGTAC TATGGTGAAAACCTGGCTGTTGGTTATGCTGATGGTGCTGCTCTTCAAGCTTGGTAC
Rbt4 Optimized Rbt4 Original	GAGGAA GCGGGCAAGGATGGTCTG AGCTAC AGCTAT GGT AGCAGCAGCGTGTAT AACCA C GAAGAAGCTGGTAAGGACGGATTAAGCTACAGTTACGGTTCTTCTTCTGTATACAACCAT
Rbt4 Optimized Rbt4 Original	TTTACC CAA GTGGTTTGG AAGAGC ACCACCAA CTGGGCTGCGCGTAC AAAGACTGCCGT TTCACCTCAAGTTGTCTGGAAATCAACCACCAA CTGGTTGTGCTTACAAGGATTGTCGT
Rbt4 Optimized Rbt4 Original	GCGCAG AACTGGGG CTGTGTACGTG GTT TGCAGCTATGATCCGGCGGGC AAC GTGATGGC GCTCAAACTGGGGATTATACGTTGTTGTTCTACGACCCAGCTGGTAACGTTATGGGT
Rbt4 Optimized Rbt4 Original	ACCGACCCG AAG ACCGGCAAGAGC TATAT GCGG AAAAT GTTCTGCGTCCG CAATAA ACTGATCCAAAGACTGGTAATCTTATATGGCTGAAAATGTCTTGAGACCACAATAA