

Catalog # 26-6543

Trimer Codon Mix 1 Sense (Mix of 20 codons)

Code: TC1s

Amino Acid	Amino Acid	Sense Trimers Codon	Reaction Factor (RF)*
K	Lys	AAA Trimer	1.1
N	Asn	AAC Trimer	1
T	Thr	ACT Trimer	1.6
I	Ile	ATC Trimer	1.5
M	Met	ATG Trimer	1.3
Q	Gln	CAG Trimer	2
H	His	CAT Trimer	1.3
P	Pro	CCG Trimer	1.8
R	Arg	CGT Trimer	1.4
L	Leu	CTG Trimer	1.2
E	Glu	GAA Trimer	1.4
D	Asp	GAC Trimer	1.6
A	Ala	GCT Trimer	1.5
G	Gly	GGT Trimer	1.1
V	Val	GTT Trimer	1.9
Y	Tyr	TAC Trimer	1.6
S	Ser	TCT Trimer	1.3
C	Cys	TGC Trimer	1.5
W	Trp	TGG Trimer	1.1
F	Phe	TTC Trimer	1.3

\* Each Trimer codon proportion in the mix is based on its reaction factor (RF). Example. The RF for AAC is 1.0 and for TAC is 1.6. Therefore, 1.6 equivalents of TAC are needed for every 1.0 equivalent of AAC for equal coupling rates. So to obtain 25 umoles of trimer mix that yields, on average, a 1:1 ratio of AAC/TAC at the mutation site, 9.6 umoles of AAC would be added to 15.4 umoles of TAC.

Catalog # 26-6544

Trimer Codon Mix 2 Sense (Mix of 19 codons without TGC (Cys))

Code: TC2s

Amino Acid	Amino Acid	Sense Trimers Codon	Reaction Factor (RF)
K	Lys	AAA Trimer	1.1
N	Asn	AAC Trimer	1
T	Thr	ACT Trimer	1.6
I	Ile	ATC Trimer	1.5
M	Met	ATG Trimer	1.3
Q	Gln	CAG Trimer	2
H	His	CAT Trimer	1.3
P	Pro	CCG Trimer	1.8
R	Arg	CGT Trimer	1.4
L	Leu	CTG Trimer	1.2
E	Glu	GAA Trimer	1.4
D	Asp	GAC Trimer	1.6
A	Ala	GCT Trimer	1.5
G	Gly	GGT Trimer	1.1
V	Val	GTT Trimer	1.9
Y	Tyr	TAC Trimer	1.6
S	Ser	TCT Trimer	1.3
W	Trp	TGG Trimer	1.1
F	Phe	TTC Trimer	1.3

\* Each Trimer codon proportion in the mix is based on its reaction factor (RF). Example. The RF for AAC is 1.0 and for TAC is 1.6. Therefore, 1.6 equivalents of TAC are needed for every 1.0 equivalent of AAC for equal coupling rates. So to obtain 25 umoles of trimer mix that yields, on average, a 1:1 ratio of AAC/TAC at the mutation site, 9.6 umoles of AAC would be added to 15.4 umoles of TAC.

Catalog # 26-6545

Trimer Codon Mix 1 Antisense (Mix of 20 codons)

Code: TC1as

Antisense AA	Amino Acid	Antisense Trimers	Reaction Factor (RF)
V	Anti Val	AAC Trimer	1.0
G	Anti Gly	ACC Trimer	0.9
S	Anti Ser	AGA Trimer	1.4
D	Anti Asp	ATC Trimer	1.5
H	Anti His	ATG Trimer	1.3
L	Anti Leu	CAG Trimer	2.0
M	Anti Met	CAT Trimer	1.3
W	Anti Trp	CCA Trimer	1.1
P	Anti Pro	CGG Trimer	0.8
Q	Anti Gln	CTG Trimer	1.2
F	Anti Phe	GAA Trimer	1.4
I	Anti Ile	GAT Trimer	1.4
C	Anti Cys	GCA Trimer	1.0
R	Anti Arg	GCG Trimer	0.6
T	Anti Thr	GGT Trimer	1.1
Y	Anti Tyr	GTA Trimer	1.5
N	Anti Asn	GTT Trimer	1.9
A	Anti Ala	TGC Trimer	1.5
E	Anti Glu	TTC Trimer	1.3
K	Anti Lys	TTT Trimer	1.7

\* Each Trimer codon proportion in the mix is based on its reaction factor (RF). Example. The RF for AAC is 1.0 and for TAC is 1.6. Therefore, 1.6 equivalents of TAC are needed for every 1.0 equivalent of AAC for equal coupling rates. So to obtain 25 umoles of trimer mix that yields, on average, a 1:1 ratio of AAC/TAC at the mutation site, 9.6 umoles of AAC would be added to 15.4 umoles of TAC.

Catalog # 26-6546

Trimer Codon Mix 2 Antisense (Mix of 19 codons without Cys)

Code: TC2as

Antisense AA	Amino Acid	Antisense Trimers	Reaction Factor (RF)
V	Anti Val	AAC Trimer	1.0
G	Anti Gly	ACC Trimer	0.9
S	Anti Ser	AGA Trimer	1.4
D	Anti Asp	ATC Trimer	1.5
H	Anti His	ATG Trimer	1.3
L	Anti Leu	CAG Trimer	2.0
M	Anti Met	CAT Trimer	1.3
W	Anti Trp	CCA Trimer	1.1
P	Anti Pro	CGG Trimer	0.8
Q	Anti Gln	CTG Trimer	1.2
F	Anti Phe	GAA Trimer	1.4
I	Anti Ile	GAT Trimer	1.4
R	Anti Arg	GCG Trimer	0.6
T	Anti Thr	GGT Trimer	1.1
Y	Anti Tyr	GTA Trimer	1.5
N	Anti Asn	GTT Trimer	1.9
A	Anti Ala	TGC Trimer	1.5
E	Anti Glu	TTC Trimer	1.3
K	Anti Lys	TTT Trimer	1.7

\* Each Trimer codon proportion in the mix is based on its reaction factor (RF). Example. The RF for AAC is 1.0 and for TAC is 1.6. Therefore, 1.6 equivalents of TAC are needed for every 1.0 equivalent of AAC for equal coupling rates. So to obtain 25 umoles of trimer mix that yields, on average, a 1:1 ratio of AAC/TAC at the mutation site, 9.6 umoles of AAC would be added to 15.4 umoles of TAC.