IUPAC nucleotide code	Base	
A	Adenine	
С	Cytosine	
G	Guanine	
T (or U)	Thymine (or Uracil)	
R	A or G	
Y	C or T	
S	G or C	
W	A or T	
K	G or T	
M	A or C	
В	C or G or T	
D	A or G or T	
Н	A or C or T	
V	A or C or G	
N	any base	
. or -	gap	

IUPAC amino acid code	Three letter code	Amino acid
A	Ala	Alanine
С	Cys	Cysteine
D	Asp	Aspartic Acid
Е	Glu	Glutamic Acid
F	Phe	Phenylalanine
G	Gly	Glycine
Н	His	Histidine
I	Ile	Isoleucine
K	Lys	Lysine
L	Leu	Leucine
M	Met	Methionine
N	Asn	Asparagine
P	Pro	Proline
Q	Gln	Glutamine
R	Arg	Arginine
S	Ser	Serine
Т	Thr	Threonine
V	Val	Valine
W	Trp	Tryptophan
Y	Tyr	Tyrosine

1 of 1 4/10/2018, 2:18 PM