
ABBREVIATION OF MODIFIED BASES

one letter code

	symbol	name
U	U	uridine
C	C	cytidine
A	A	adenosine
G	G	guanosine
T	T	thymine (for sequences of tRNA genes only)
-		empty position
<u>-</u>	(underline)	insertion (see footnote for further information)
.		unknown nucleotide
H	?A	unknown modified adenosine
"	m1A	1-methyladenosine
/	m2A	2-methyladenosine
+	i6A	N6-isopentenyladenosine
*	ms2i6A	2-methylthio-N6-isopentenyladenosine
=	m6A	N6-methyladenosine
6	t6A	N6-threonylcarbamoyladenosine
E	m6t6A	N6-methyl-N6-threonylcarbamoyladenosine
[ms2t6A	2-methylthio-N6-threonylcarbamoyladenosine
:	Am	2'-O-methyladenosine
I	I	inosine
O	m1I	1-methylinosine
^	Ar(p)	2'-O-ribosyladenosine (phosphat)
`	io6A	N6-(cis-hydroxyisopentenyl)adenosine
<	?C	unknown modified cytidine
%	s2C	2-thiocytidine
B	Cm	2'-O-methylcytidine
M	ac4C	N4-acetylcytidine
?	m5C	5-methylcytidine
'	m3C	3-methylcytidine
}	k2C	lysidine
>	f5C	5-formylcytidin
°	f5Cm	2-O-methyl-5-formylcytidin
;	?G	unknown modified guanosine
K	m1G	1-methylguanosine
L	m2G	N2-methylguanosine
#	Gm	2'-O-methylguanosine
R	m22G	N2,N2-dimethylguanosine
	m22Gm	N2,N2,2'-O-trimethylguanosine
7	m7G	7-methylguanosine
(fa7d7G	archaeosine
Q	Q	queuosine

8	manQ	mannosyl-queuosine
9	galQ	galactosyl-queuosine
Y	yW	wybutosine
W	o2yW	peroxywybutosine
N	?U	unknown modified uridine
{	mnM5U	5-methylaminomethyluridine
2	s2U	2-thiouridine
J	Um	2'-O-methyluridine
4	s4U	4-thiouridine
&	ncM5U	5-carbamoylmethyluridine
1	mcm5U	5-methoxycarbonylmethyluridine
S	mnM5s2U	5-methylaminomethyl-2-thiouridine
3	mcm5s2U	5-methoxycarbonylmethyl-2-thiouridine
V	cmo5U	uridine 5-oxyacetic acid
5	mo5U	5-methoxyuridine
!	cmnm5U	5-carboxymethylaminomethyluridine
\$	cmnm5s2U	5-carboxymethylaminomethyl-2-thiouridine
X	acp3U	3-(3-amino-3-carboxypropyl)uridine
,	mchm5U	5-(carboxyhydroxymethyl)uridinemethyl ester
)	cmnm5Um	5-carboxymethylaminomethyl-2'-O-methyluridine
~	ncM5Um	5-carbamoylmethyl-2'-O-methyluridine
D	D	dihydrouridine
P	psi	pseudouridine
]	m1psi	1-methylpseudouridine
Z	psi m	2'-O-methylpseudouridine
T	m5U	ribosylthymine
F	m5s2U	5-methyl-2-thiouridine
\	m5Um	5, 2'-O-dimethyluridine