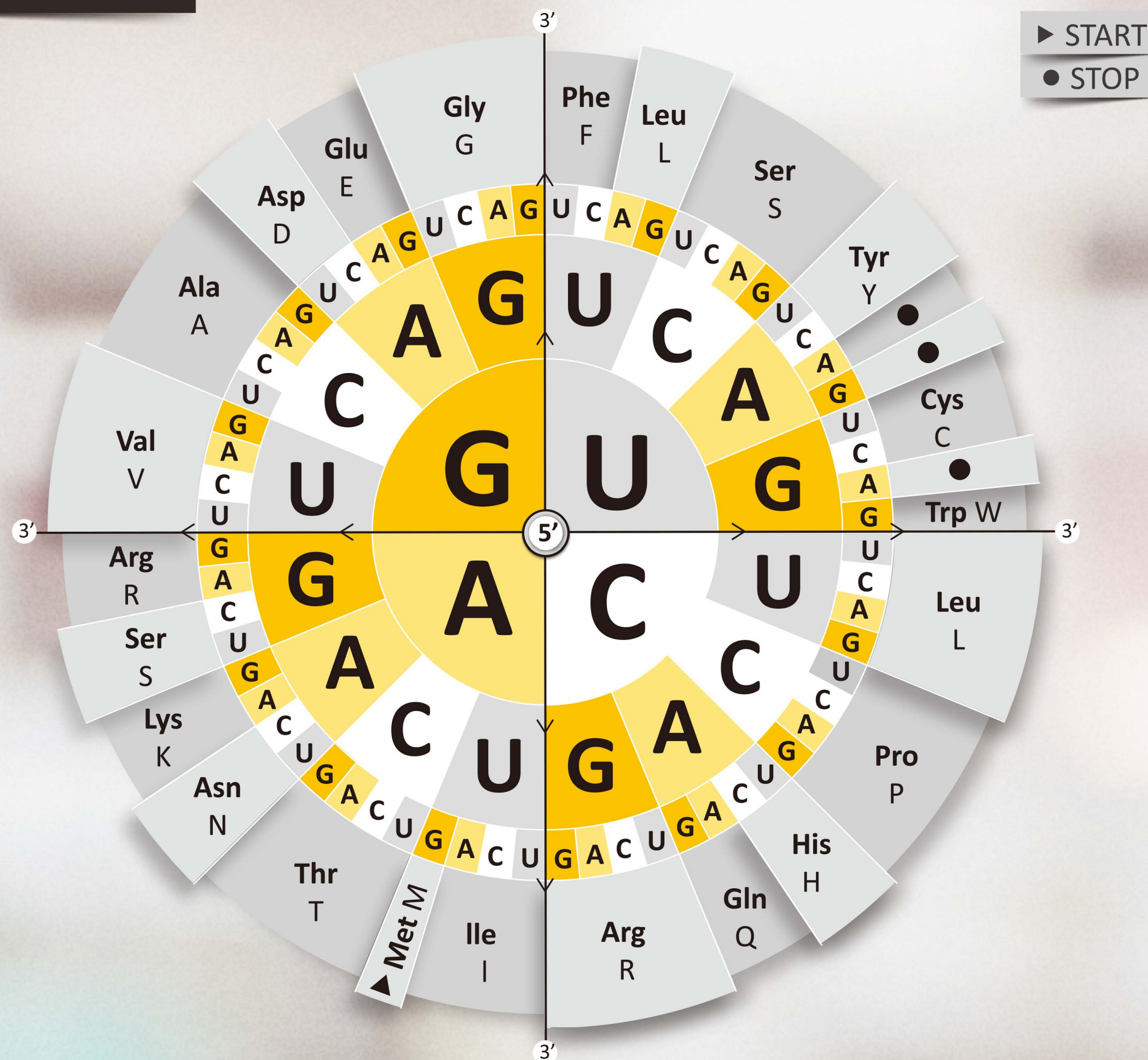


# Biological Research

## Amino Acid Code



## Cell Fractionation and Organelle Markers

### Nucleolus Markers

Antibody Name	Applications	Reactivities	CatNo.
Fibrillarin antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX113684
PAF49 antibody	WB, ICC/IF, IHC-P	Hu	GTX102175
EIF6 antibody	WB, ICC/IF	Hu	GTX54010

### Nuclear Markers

Antibody Name	Applications	Reactivities	CatNo.
PCNA antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX113684
Nuclear Matrix Protein p84 antibody	WB, ICC/IF, IHC-P	Hu	GTX102175
HDAC1 antibody	WB, ICC/IF	Hu	GTX54010

### Ribosomal Markers

Antibody Name	Applications	Reactivities	CatNo.
RPS3 antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat	GTX103964
RPL4 antibody	WB, ICC/IF, IHC-P	Hu, Ms	GTX112184
RPL17 antibody	WB, ICC/IF, IHC-P	Hu, Rat	GTX111934
RSK1 antibody	WB, ICC/IF, IHC-P	Hu	GTX111050

### Endosome Markers

Antibody Name	Applications	Reactivities	CatNo.
EEA1 antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX634169
RAB7A antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX132548
RAB11B antibody	WB, ICC/IF, IHC-P, IHC-Fr	Hu, Ms, Rat	GTX119095

### Exosome Markers

Antibody Name	Applications	Reactivities	CatNo.
TSG101 antibody	WB, ICC/IF, IHC-P, FACS, IP, ELISA, EM, IHC	Hu, Ms, Rat, Hm, Mk	GTX70255
CD63 antibody	WB, ICC/IF, IHC-P, FACS, IP	Hu	GTX28219
CD81 antibody	WB, IHC-P, FACS, Blocking	Hu	GTX101766
CD9 antibody	WB, IHC-Fr, FACS, Blocking	Hu, Ms, Rb, Box, Cat, Dog +	GTX76184

### Endoplasmic Reticulum Markers

Antibody Name	Applications	Reactivities	CatNo.
Calnexin antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat, Sheep	GTX109669
GRP94 antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat	GTX103232
Grp78 antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat, Chk	GTX113340
PDI antibody	WB, ICC/IF, IHC-P, EM	Hu, Ms	GTX101468

### Cytoplasm Markers

Antibody Name	Applications	Reactivities	CatNo.
GAPDH antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat, Zfsh, Yeast +	GTX100118
USP8 antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms	GTX103747

### Mitochondrial Markers

Antibody Name	Applications	Reactivities	CatNo.
Citrate synthetase antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat, Chk, Mk	GTX110624
SDHA antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX632636
COX4 antibody	WB, ICC/IF, IHC-P, IHC-Fr	Hu, Ms, Rat	GTX114330
Cytochrome C antibody	WB, IHC-P, IHC-Fr	Hu, Ms, Rt	GTX108585
Hexokinase 1 antibody	WB, ICC/IF, IHC-P	Hu	GTX105248
HSP60 antibody	WB, ICC/IF, IHC-P, ELISA	Hu, Ms, Rat, Hm	GTX110089
MFN1 antibody	WB, IHC-P	Hu, Ms, Rt	GTX133351
TOMM20 antibody	WB, IHC-P	Hu, Ms, Rt	GTX133756

### Golgi Apparatus Markers

Antibody Name	Applications	Reactivities	CatNo.
GOLGA5 antibody	WB, ICC/IF, IHC-P	Hu, Ms	GTX104255
GOLPH2 antibody	WB, ICC/IF, IHC-P	Hu	GTX107702
GM130 antibody	WB, ICC/IF, IP	Hu	GTX130351

### Cytoskeleton Markers

Antibody Name	Applications	Reactivities	CatNo.
beta Actin antibody	WB, ICC/IF, IHC-P, IP	Hu, Ms, Rat, Yeast, Sheep +	GTX109639
alpha Tubulin antibody	WB, ICC/IF, IHC-P, IHC-Fr	Hu, Ms, Rat, Dm, Chk +	GTX112141
Desmin antibody	WB, ICC/IF, IHC-P, IHC-Fr, FACS	Hu, Ms, Rat, Chk	GTX103557
Vimentin antibody	WB, ICC/IF, IHC-P, IHC-Fr, IP, IHC	Hu, Ms, Rat	GTX100619

### Lysosome Markers

Antibody Name	Applications	Reactivities	CatNo.
LAMP1 antibody	WB, ICC/IF, IHC-P	Hu, Ms, Rat	GTX634336
LAMP2 antibody	WB, ICC/IF, IHC-P	Hu	GTX103214

### Autophagosome Markers

Antibody Name	Applications	Reactivities	CatNo.
LC3B antibody	WB, ICC/IF, IHC-P, FACS, IP	Hu, Ms, Rat, Pig	GTX127375
SQSTM1 antibody	WB, ICC/IF, IHC-P, FACS, IP	Hu, Ms, Rat, Zfsh, Bov +	GTX100685

### Centrosome Markers

Antibody Name	Applications	Reactivities	CatNo.
gamma Tubulin antibody	WB, ICC/IF, IHC-P, IP, IHC-P, IHC	Hu, Ms, Rat, Zfsh	GTX113286
Ninein antibody	WB, IHC-P	Hu, Ms, Rat	GTX64771
Pericentrin antibody	WB	Hu, Ms, Rat	GTX55997

### Cell Membrane Markers

Antibody Name	Applications	Reactivities	CatNo.
pan Cadherin antibody	WB, ICC/IF	Hu	GTX132646
Sodium/Potassium ATPase beta 1 antibody	WB, IHC-P	Hu, Ms, Rat	GTX113390

## Loading Controls

MW(kDa)	Cytosol	Nucleus	Cytoskeleton	Mitochondria	Serum
>120 kDa			Vinculin (GTX109749)		
70-80 kDa				SDHA (GTX632636)	Transferrin (GTX21223)
60-70 kDa		Lamin B1 (GTX103292)			Albumin (GTX102419)
50-60 kDa			alpha Tubulin (GTX112141)	HSP60 (GTX110089)	
40-50 kDa			beta Tubulin (GTX101279) beta Actin (GTX109639)		
30-40 kDa	GAPDH (GTX100118)	TBP/TFIID (GTX133204)		VDAC1 (GTX114187)	
20-30 kDa		PCNA (GTX100539)	Cofilin (GTX102156)	COX4 (GTX114330)	
<20 kDa	Cyclophilin A (GTX104698)	Histone H3 (GTX122148)		Cytochrome C (GTX108585)	

## Fluorescence Excitation and Emission Spectra

Emission	Fluor	Ex/Em
Blue	DyLight 350	353/432
Blue	DyLight 405	400/420
Green	DyLight 488	493/518
Yellow	DyLight 550	562/576
Red	DyLight 594	593/618
Red	DyLight 633	638/658
Red	DyLight 650	652/672
Near IR	DyLight 680	692/712
Near IR	DyLight 755	754/776
Infrared	DyLight 800	777/794

