

Kidney Injury Molecule -1 (KIM-1) as synonym of Hepatitis A virus cellular receptor 1 (HAVcr-1)

Summary

Symbol **Havcr1**

Name hepatitis A virus cellular receptor 1

Synonyms KIM-1, Tim1, TIM-1

Feature Type protein coding gene

IDs MGI:2159680
NCBI Gene: 171283

Alliance [gene page](#)

Transcription Start Sites 9 TSS

Location & Maps [more](#)

Sequence Map Chr11:46630644-46670405 bp, + strand
From NCBI annotation of GRCm39

Genetic Map Chromosome 11, 28.08 cM

Strain Comparison [more](#)

SNPs within 2kb 294 from dbSNP Build 142

Strain Annotations 18

Homology [more](#)

Human Ortholog HAVCR1, hepatitis A virus cellular receptor 1

Vertebrate Orthologs 3

Human Diseases [more](#)

Diseases 1 with human HAVCR1 associations

Mutations, Alleles, and Phenotypes [less](#)

Phenotype Summary 20 phenotypes from 3 alleles in 4 genetic backgrounds
16 phenotypes from multigenic genotypes
25 phenotype references

All Mutations and Alleles 11

Chemically induced (other) 1

Endonuclease-mediated 4

Targeted 6

Genomic Mutations 1 involving Havcr1

Incidental Mutations [Mutagenetix](#), [APF](#)

Find Mice (IMSR) 23 strains or lines available

Comparison Matrix [Gene Expression + Phenotype](#)

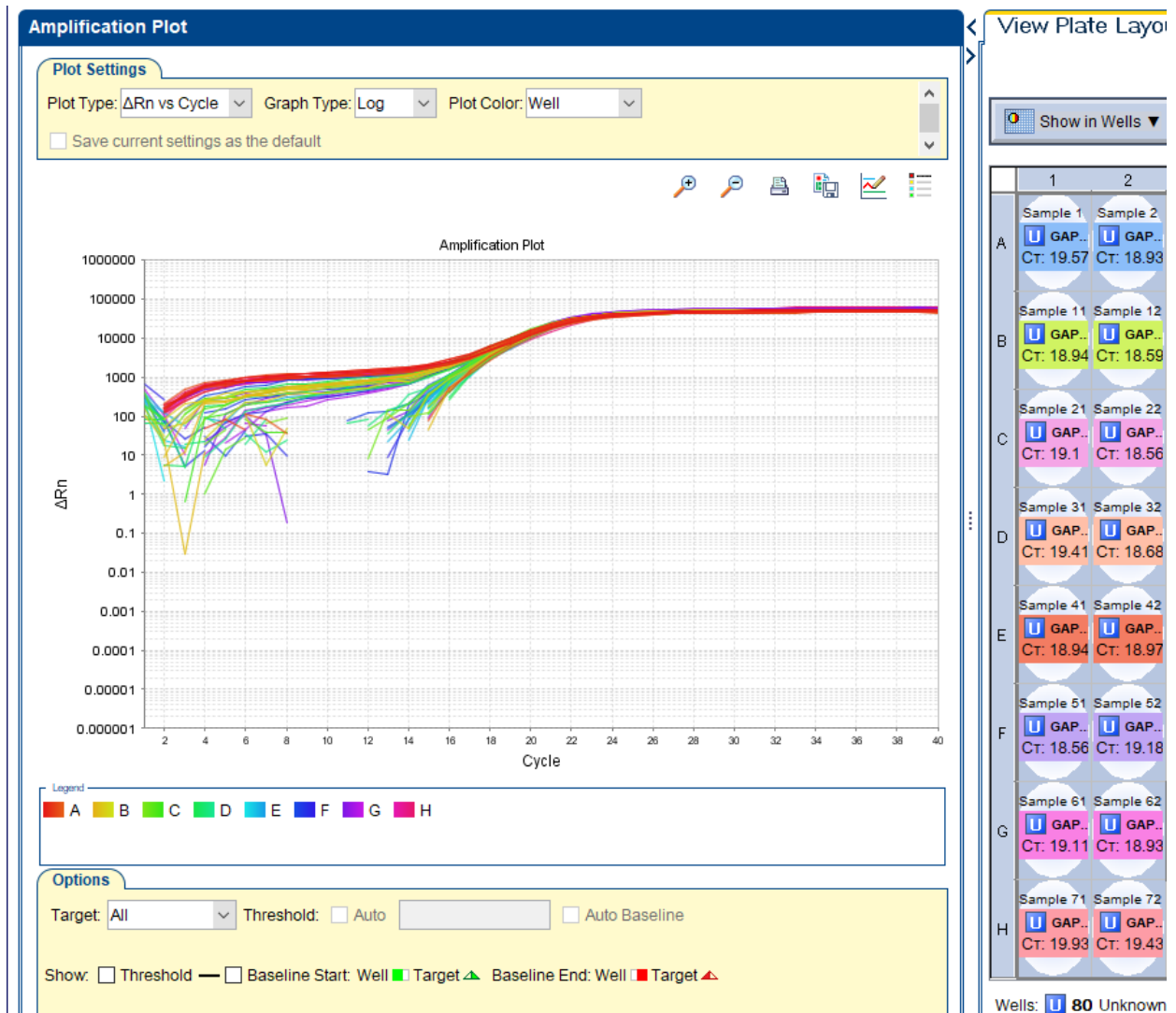
Phenotype Overview

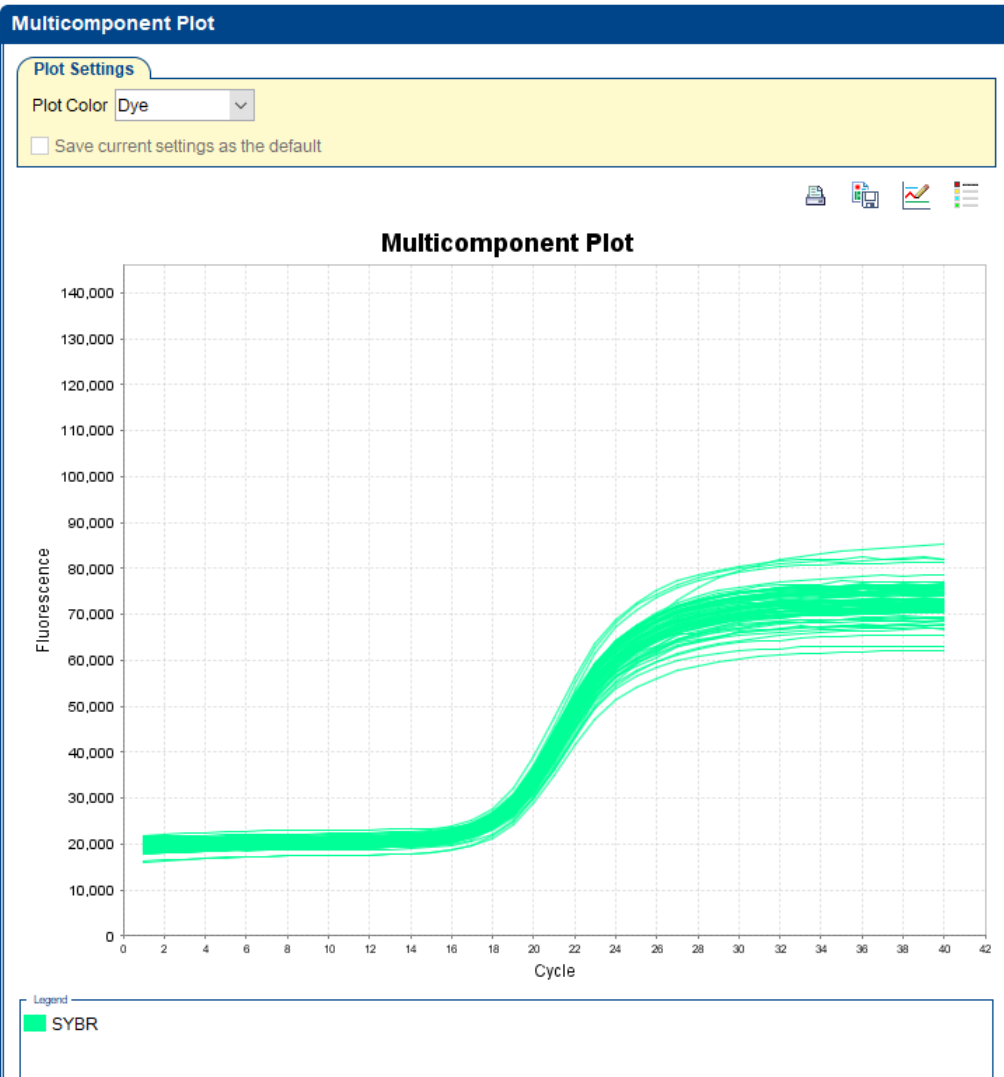
Supplementary Table S1: Information for genes of interest for RT-qPCR

Gene names	Abbreviation	Sequences	Gene's function
Interleukin-6	IL-6	F: AAGAAATGATGGATGCTACC R: GAGTTTCTGTATCTCTCTGAAG	Pro-inflammatory markers
Tumor Necrosis Factor	TNF- α	F: CTATGTCTCAGCCTCTTCTC R: CATTTGGGAACCTTCTCATCC	
Kidney Injury Molecule 1	KIM-1 or HAVCR1	F: TACTCCTACAGACTGGAATG R: AGTATGTACCTGGTGATAGC	Kidney injury marker
Purinergic Receptor P2Y, G-Protein Coupled, 1	P2RY1	F: TTGTAACATGGTCACAAGAC R: AGGTGTCTTTCAACAAAACG	Purinceptor
Glyceraldehyde-3-Phosphate Dehydrogenase	GAPDH	F: CATCACTGCCACCCAGAAGACTG R: ATGCCAGTGAGCTTCCCGTTTCAG	House-keeping gene

Supplementation: Amplification curves for target genes

GAPDH





View Plate Layout

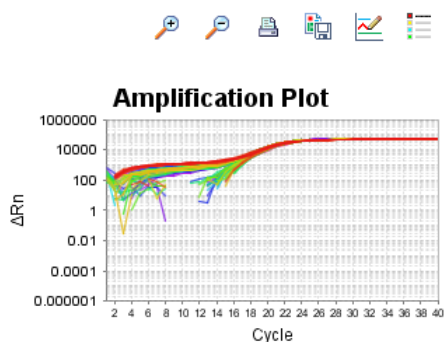
Show in Wells

	1	2
A	Sample 1 U GAP.. Ct: 19.57	Sample 2 U GAP.. Ct: 18.93
B	Sample 11 U GAP.. Ct: 18.94	Sample 12 U GAP.. Ct: 18.59
C	Sample 21 U GAP.. Ct: 19.1	Sample 22 U GAP.. Ct: 18.56
D	Sample 31 U GAP.. Ct: 19.41	Sample 32 U GAP.. Ct: 18.68
E	Sample 41 U GAP.. Ct: 18.94	Sample 42 U GAP.. Ct: 18.97
F	Sample 51 U GAP.. Ct: 18.56	Sample 52 U GAP.. Ct: 19.18
G	Sample 61 U GAP.. Ct: 19.11	Sample 62 U GAP.. Ct: 18.93
H	Sample 71 U GAP.. Ct: 19.93	Sample 72 U GAP.. Ct: 19.43

Wells: U 80 Unknown

Multiple Plots View

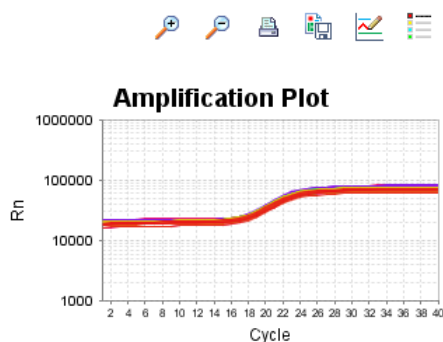
Amplification Plot - ΔRn vs Cycle



Legend

A B C D
E F G H

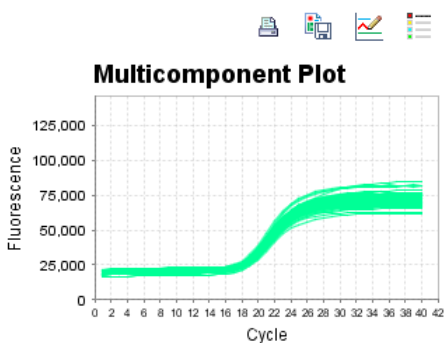
Amplification Plot - Rn vs Cycle



Legend

A B C D
E F G H

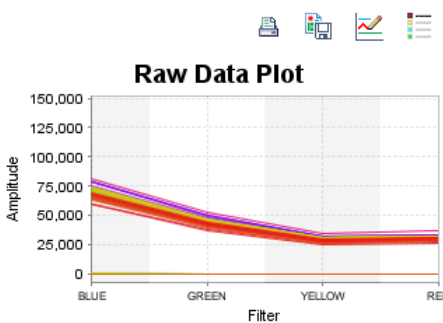
Multicomponent Plot



Legend

SYBR

Raw Data Plot



Legend

A B C D
E F G H

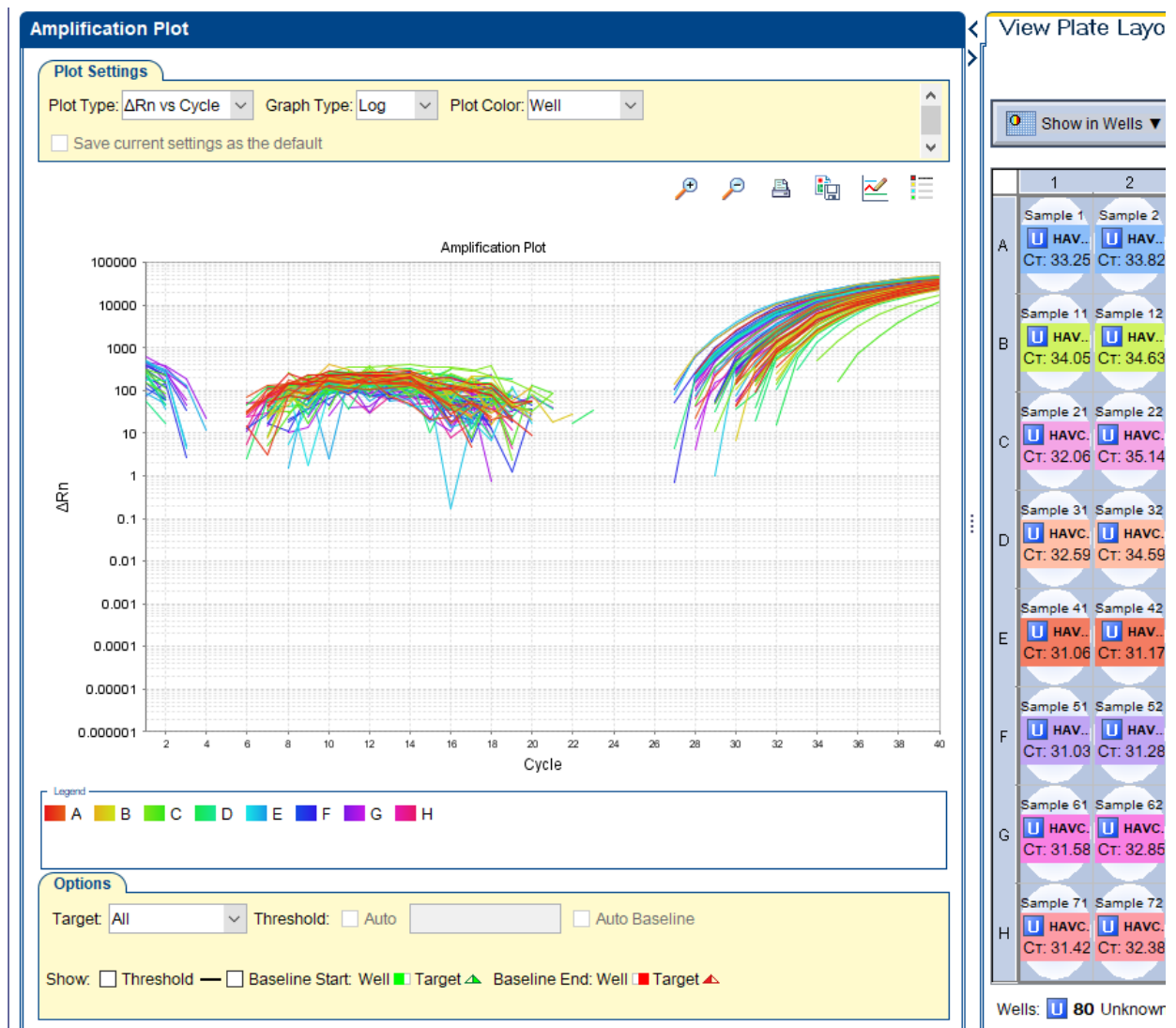
View Plate Layout

Show in Wells

	1	2
A	Sample 1 U GAP.. Ct: 19.57	Sample 2 U GAP.. Ct: 18.93
B	Sample 11 U GAP.. Ct: 18.94	Sample 12 U GAP.. Ct: 18.59
C	Sample 21 U GAP.. Ct: 19.1	Sample 22 U GAP.. Ct: 18.56
D	Sample 31 U GAP.. Ct: 19.41	Sample 32 U GAP.. Ct: 18.68
E	Sample 41 U GAP.. Ct: 18.94	Sample 42 U GAP.. Ct: 18.97
F	Sample 51 U GAP.. Ct: 18.56	Sample 52 U GAP.. Ct: 19.18
G	Sample 61 U GAP.. Ct: 19.11	Sample 62 U GAP.. Ct: 18.93
H	Sample 71 U GAP.. Ct: 19.93	Sample 72 U GAP.. Ct: 19.43

Wells: U 80 Unknown

HAVCR1 or KIM1



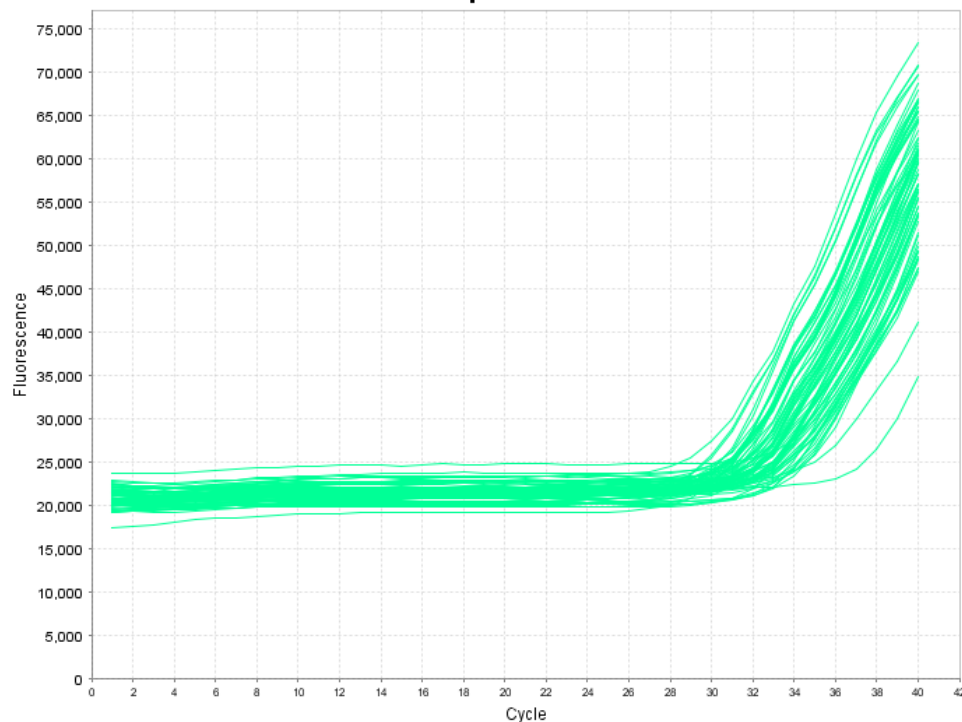
Multicomponent Plot

Plot Settings

Plot Color Dye

☐ Save current settings as the default

Multicomponent Plot



Legend
SYBR

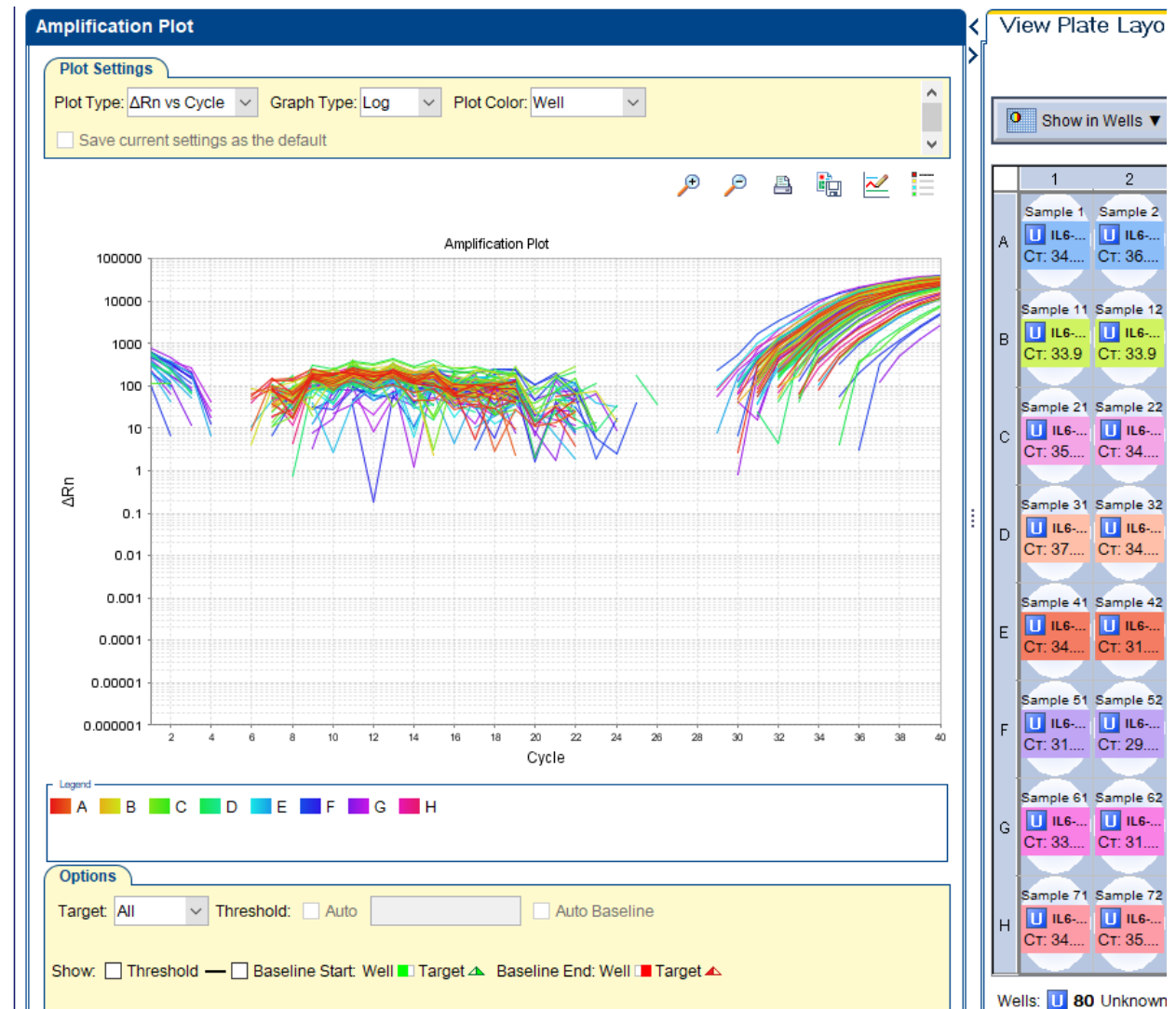
View Plate Layout

☒ Show in Wells

	1	2
A	Sample 1 U HAV.. Ct: 33.25	Sample 2 U HAV.. Ct: 33.82
B	Sample 11 U HAV.. Ct: 34.05	Sample 12 U HAV.. Ct: 34.63
C	Sample 21 U HAVC. Ct: 32.06	Sample 22 U HAVC. Ct: 35.14
D	Sample 31 U HAVC. Ct: 32.59	Sample 32 U HAVC. Ct: 34.59
E	Sample 41 U HAV.. Ct: 31.06	Sample 42 U HAV.. Ct: 31.17
F	Sample 51 U HAV.. Ct: 31.03	Sample 52 U HAV.. Ct: 31.28
G	Sample 61 U HAVC. Ct: 31.58	Sample 62 U HAVC. Ct: 32.85
H	Sample 71 U HAVC. Ct: 31.42	Sample 72 U HAVC. Ct: 32.38

Wells: **U 80** Unknown

IL6



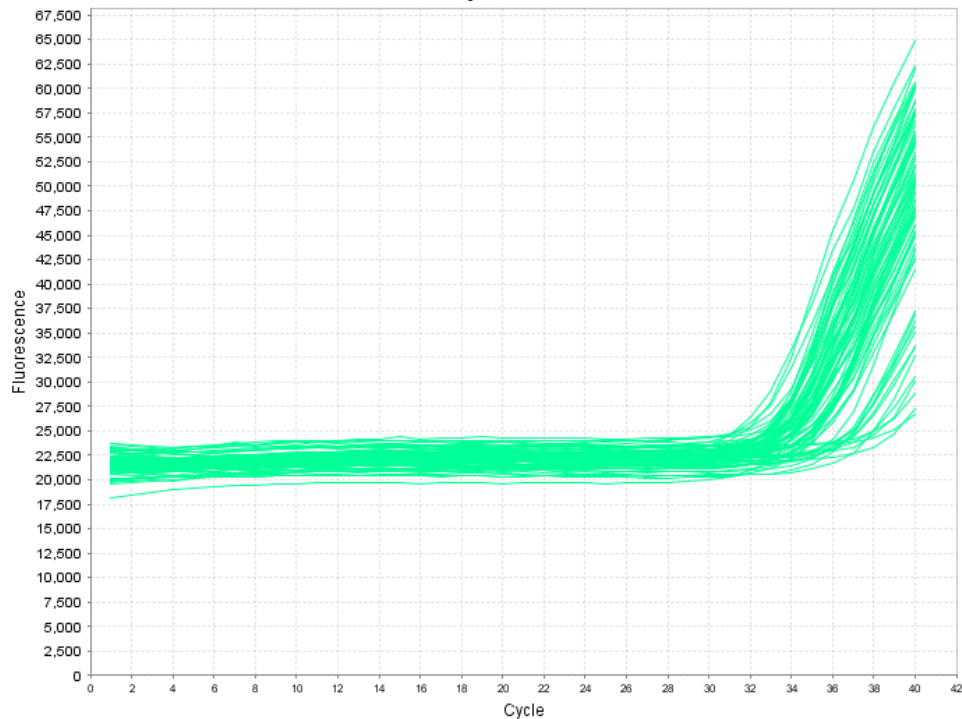
Multicomponent Plot

Plot Settings

Plot Color Dye

☐ Save current settings as the default

Multicomponent Plot



Legend
SYBR

View Plate Layout

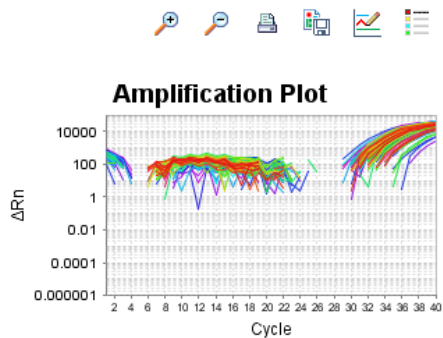
☒ Show in Wells

	1	2
A	Sample 1 U IL6-... Ct: 34....	Sample 2 U IL6-... Ct: 36....
	Sample 11 U IL6-... Ct: 33.9	Sample 12 U IL6-... Ct: 33.9
B	Sample 21 U IL6-... Ct: 35....	Sample 22 U IL6-... Ct: 34....
	Sample 31 U IL6-... Ct: 37....	Sample 32 U IL6-... Ct: 34....
C	Sample 41 U IL6-... Ct: 34....	Sample 42 U IL6-... Ct: 31....
	Sample 51 U IL6-... Ct: 31....	Sample 52 U IL6-... Ct: 29....
D	Sample 61 U IL6-... Ct: 33....	Sample 62 U IL6-... Ct: 31....
	Sample 71 U IL6-... Ct: 34....	Sample 72 U IL6-... Ct: 35....
E		
F		
G		
H		

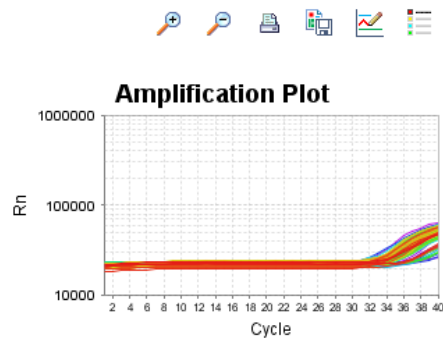
Wells: **U** 80 Unknown

Multiple Plots View

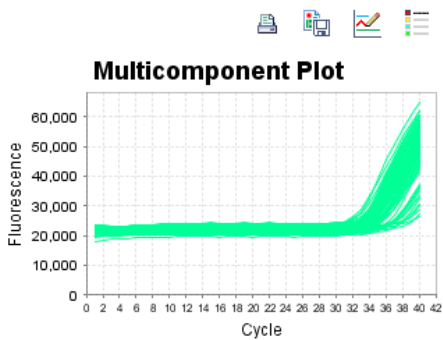
Amplification Plot - ΔRn vs Cycle



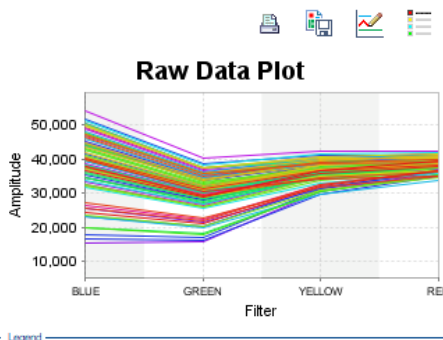
Amplification Plot - Rn vs Cycle



Multicomponent Plot



Raw Data Plot



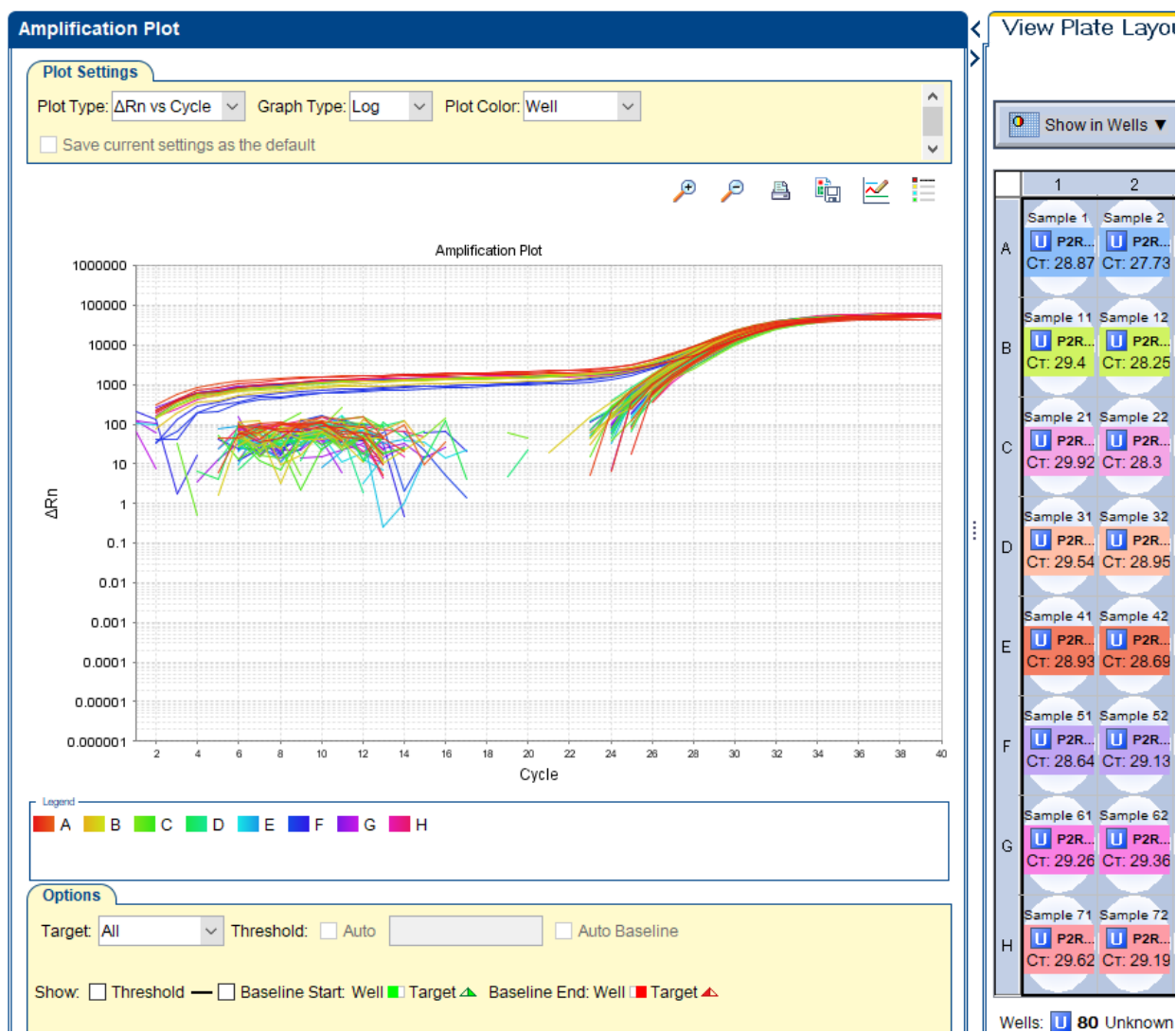
View Plate Layout

Show in Wells

	1	2
A	Sample 1 U IL6-... Ct: 34....	Sample 2 U IL6-... Ct: 36....
B	Sample 11 U IL6-... Ct: 33.9	Sample 12 U IL6-... Ct: 33.9
C	Sample 21 U IL6-... Ct: 35....	Sample 22 U IL6-... Ct: 34....
D	Sample 31 U IL6-... Ct: 37....	Sample 32 U IL6-... Ct: 34....
E	Sample 41 U IL6-... Ct: 34....	Sample 42 U IL6-... Ct: 31....
F	Sample 51 U IL6-... Ct: 31....	Sample 52 U IL6-... Ct: 29....
G	Sample 61 U IL6-... Ct: 33....	Sample 62 U IL6-... Ct: 31....
H	Sample 71 U IL6-... Ct: 34....	Sample 72 U IL6-... Ct: 35....

Wells: U 80 Unknown

P2RY1



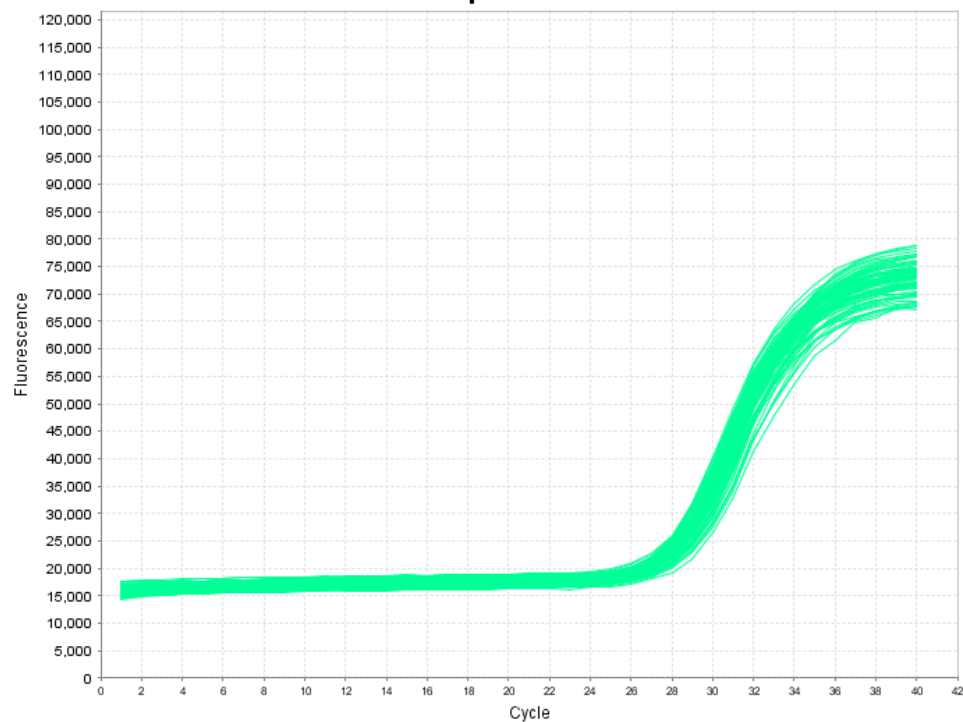
Multicomponent Plot

Plot Settings

Plot Color Dye

☐ Save current settings as the default

Multicomponent Plot



Legend

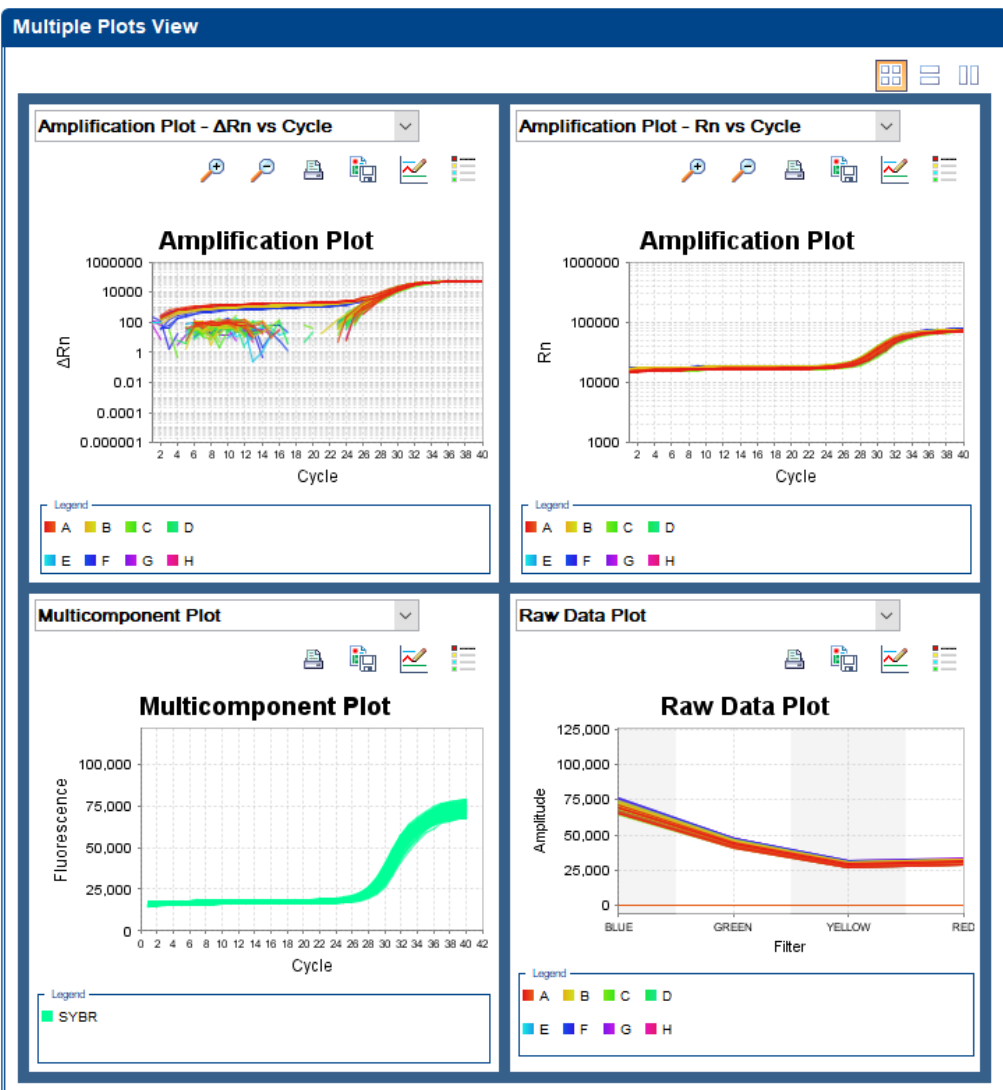
■ SYBR

View Plate Layout

Show in Wells

	1	2
A	Sample 1 U P2R... Ct: 28.87	Sample 2 U P2R... Ct: 27.73
B	Sample 11 U P2R... Ct: 29.4	Sample 12 U P2R... Ct: 28.25
C	Sample 21 U P2R... Ct: 29.92	Sample 22 U P2R... Ct: 28.3
D	Sample 31 U P2R... Ct: 29.54	Sample 32 U P2R... Ct: 28.95
E	Sample 41 U P2R... Ct: 28.93	Sample 42 U P2R... Ct: 28.69
F	Sample 51 U P2R... Ct: 28.64	Sample 52 U P2R... Ct: 29.13
G	Sample 61 U P2R... Ct: 29.26	Sample 62 U P2R... Ct: 29.36
H	Sample 71 U P2R... Ct: 29.62	Sample 72 U P2R... Ct: 29.19

Wells: U 80 Unknown



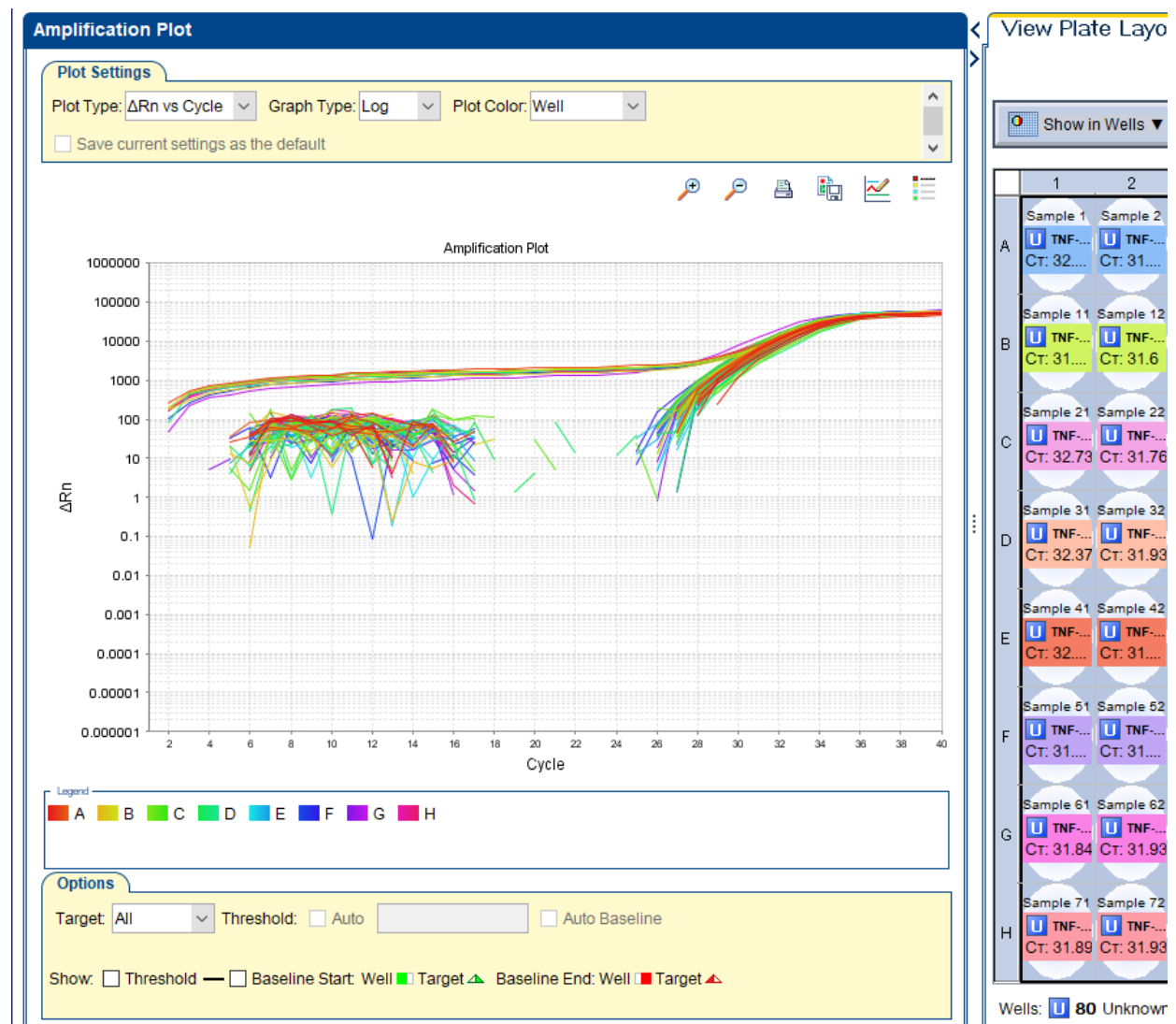
View Plate Layout

Show in Wells

	1	2
A	Sample 1 U P2R... Ct: 28.87	Sample 2 U P2R... Ct: 27.73
B	Sample 11 U P2R... Ct: 29.4	Sample 12 U P2R... Ct: 28.25
C	Sample 21 U P2R... Ct: 29.92	Sample 22 U P2R... Ct: 28.3
D	Sample 31 U P2R... Ct: 29.54	Sample 32 U P2R... Ct: 28.95
E	Sample 41 U P2R... Ct: 28.93	Sample 42 U P2R... Ct: 28.69
F	Sample 51 U P2R... Ct: 28.64	Sample 52 U P2R... Ct: 29.13
G	Sample 61 U P2R... Ct: 29.26	Sample 62 U P2R... Ct: 29.36
H	Sample 71 U P2R... Ct: 29.62	Sample 72 U P2R... Ct: 29.19

Wells: U 80 Unknown

TNF- α



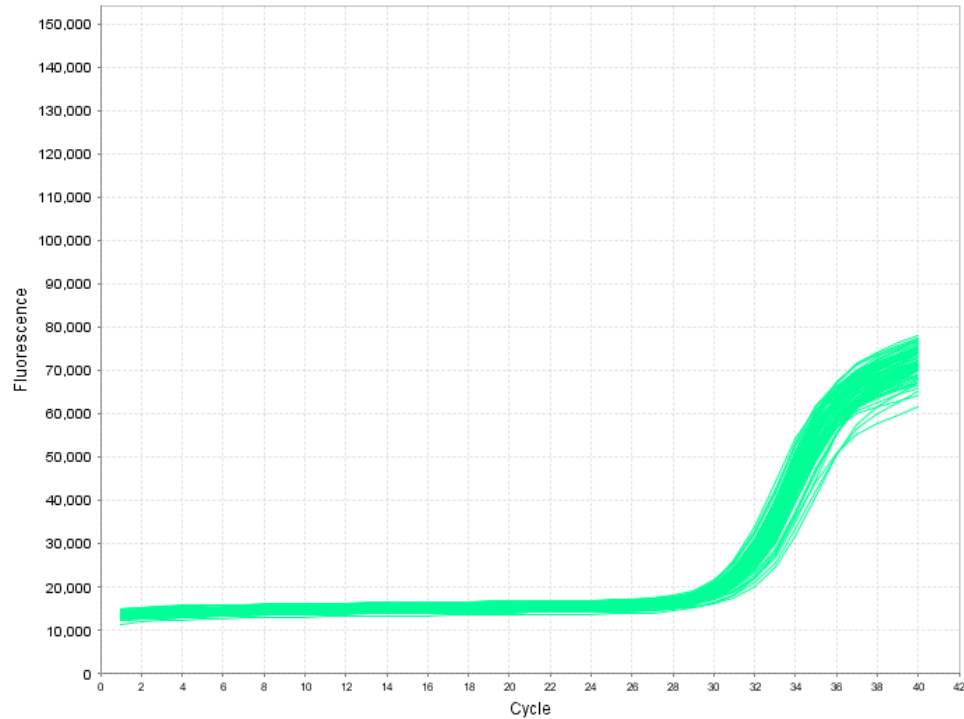
Multicomponent Plot

Plot Settings

Plot Color: Dye

☐ Save current settings as the default

Multicomponent Plot



Legend

■ SYBR

View Plate Layout

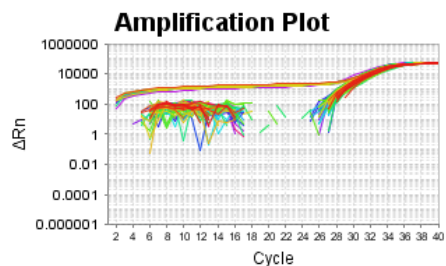
Show in Wells ▼

	1	2
A	Sample 1 U TNF-... Ct: 32....	Sample 2 U TNF-... Ct: 31....
B	Sample 11 U TNF-... Ct: 31....	Sample 12 U TNF-... Ct: 31.6
C	Sample 21 U TNF-... Ct: 32.73	Sample 22 U TNF-... Ct: 31.76
D	Sample 31 U TNF-... Ct: 32.37	Sample 32 U TNF-... Ct: 31.93
E	Sample 41 U TNF-... Ct: 32....	Sample 42 U TNF-... Ct: 31....
F	Sample 51 U TNF-... Ct: 31....	Sample 52 U TNF-... Ct: 31....
G	Sample 61 U TNF-... Ct: 31.84	Sample 62 U TNF-... Ct: 31.93
H	Sample 71 U TNF-... Ct: 31.89	Sample 72 U TNF-... Ct: 31.93

Wells: U 80 Unknown

Multiple Plots View

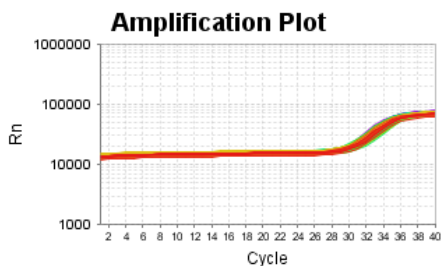
Amplification Plot - ΔRn vs Cycle



Legend

A B C D
E F G H

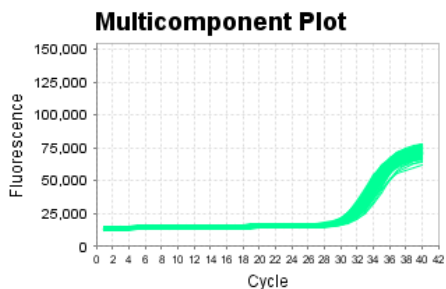
Amplification Plot - Rn vs Cycle



Legend

A B C D
E F G H

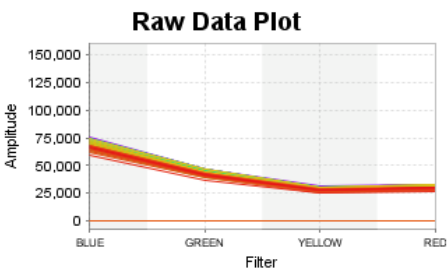
Multicomponent Plot



Legend

SYBR

Raw Data Plot



Legend

A B C D
E F G H

View Plate Layout

Show in Wells

	1	2
A	Sample 1 U TNF-... Ct: 32....	Sample 2 U TNF-... Ct: 31....
B	Sample 11 U TNF-... Ct: 31....	Sample 12 U TNF-... Ct: 31.6
C	Sample 21 U TNF-... Ct: 32.73	Sample 22 U TNF-... Ct: 31.76
D	Sample 31 U TNF-... Ct: 32.37	Sample 32 U TNF-... Ct: 31.93
E	Sample 41 U TNF-... Ct: 32....	Sample 42 U TNF-... Ct: 31....
F	Sample 51 U TNF-... Ct: 31....	Sample 52 U TNF-... Ct: 31....
G	Sample 61 U TNF-... Ct: 31.84	Sample 62 U TNF-... Ct: 31.93
H	Sample 71 U TNF-... Ct: 31.89	Sample 72 U TNF-... Ct: 31.93

Wells: U 80 Unknown