

## Audit Level Report

Generated: Oct 09 2020 10:19

### Sample: CBA.G4F-426-L3W

#### Analysis Parameters

Analytes	Alpha1 AntiTrypsin, Haptoglobin, Transferrin
Equipment Protocol	Vertical Tanks 1
Analysis Protocol	V1.01
Usage	Research Use Only

#### Summary

The analysis presented in this document resulted from following the biosignatures 'Gel-As-Assay' workflow. A hybrid 2D DiGE approach is used to increase automation, quality and reproducibility. The key difference is that a fixed standard is always used rather than a pooled standard.

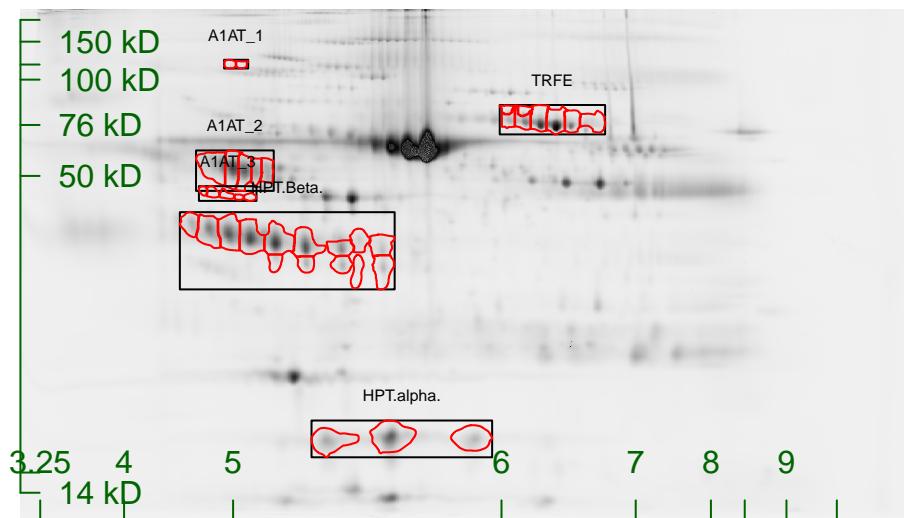
2µL Human Plasma is labelled with Cy5 (or equivalent) and a fixed standard labelled with Cy3 following protocols defined by biosignatures. Images of the channels are then uploaded to a cloud analysis platform. The Cy3 standard is then aligned into a fixed reference space and automated QC procedures assess the fixed standard. If the standard passes the automated procedures a fixed feature pattern is applied and feature measures obtained. This report is then automatically generated detailing the results for a selected subset of analytes.

*summary table of results*

#### Analytes:

##### Overview

The gel image below shows the locations of the analyte chains presented in this report.



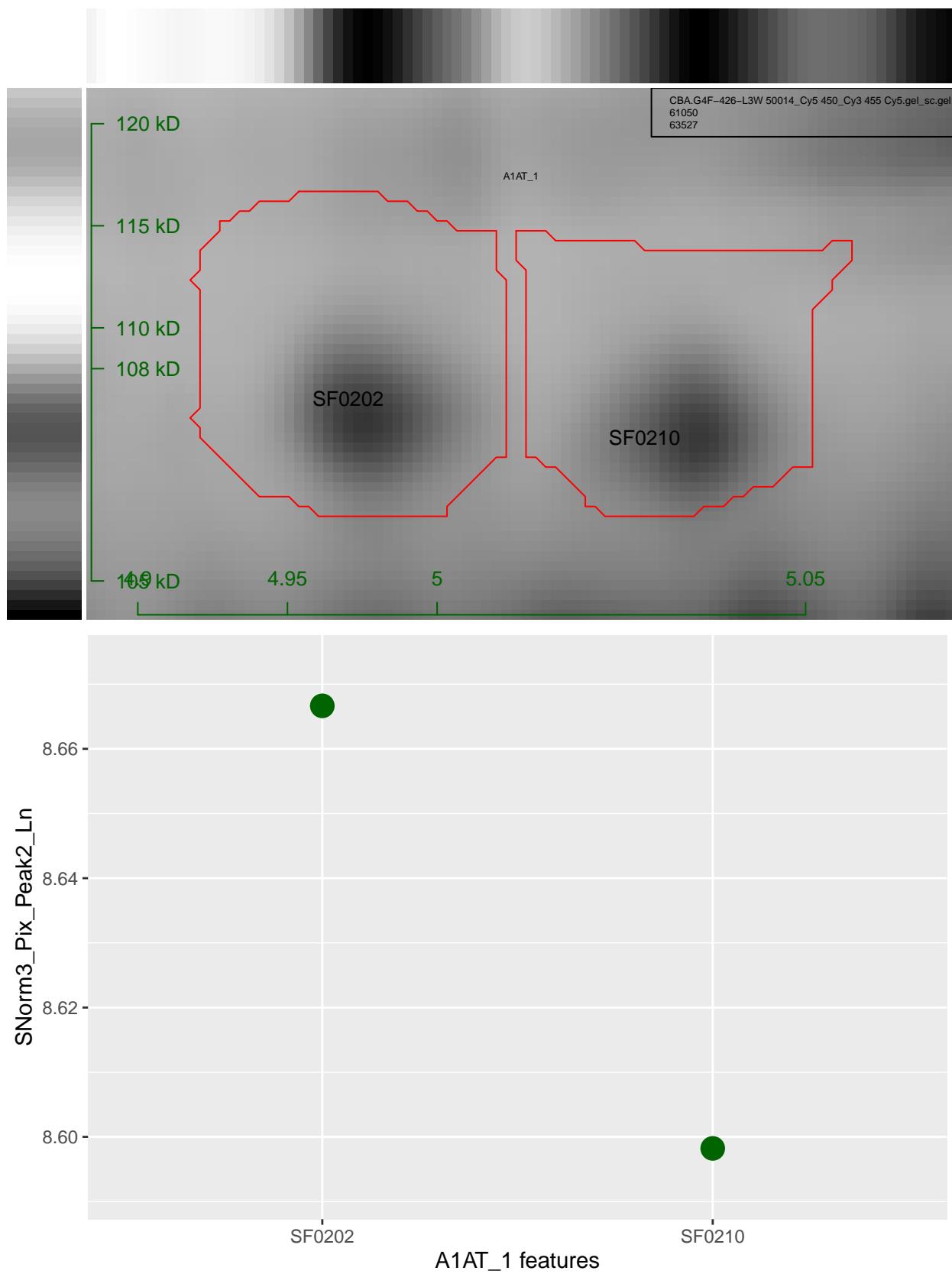
## Alpha-1-antitrypsin (P01009)

From: Human plasma protein N-glycosylation

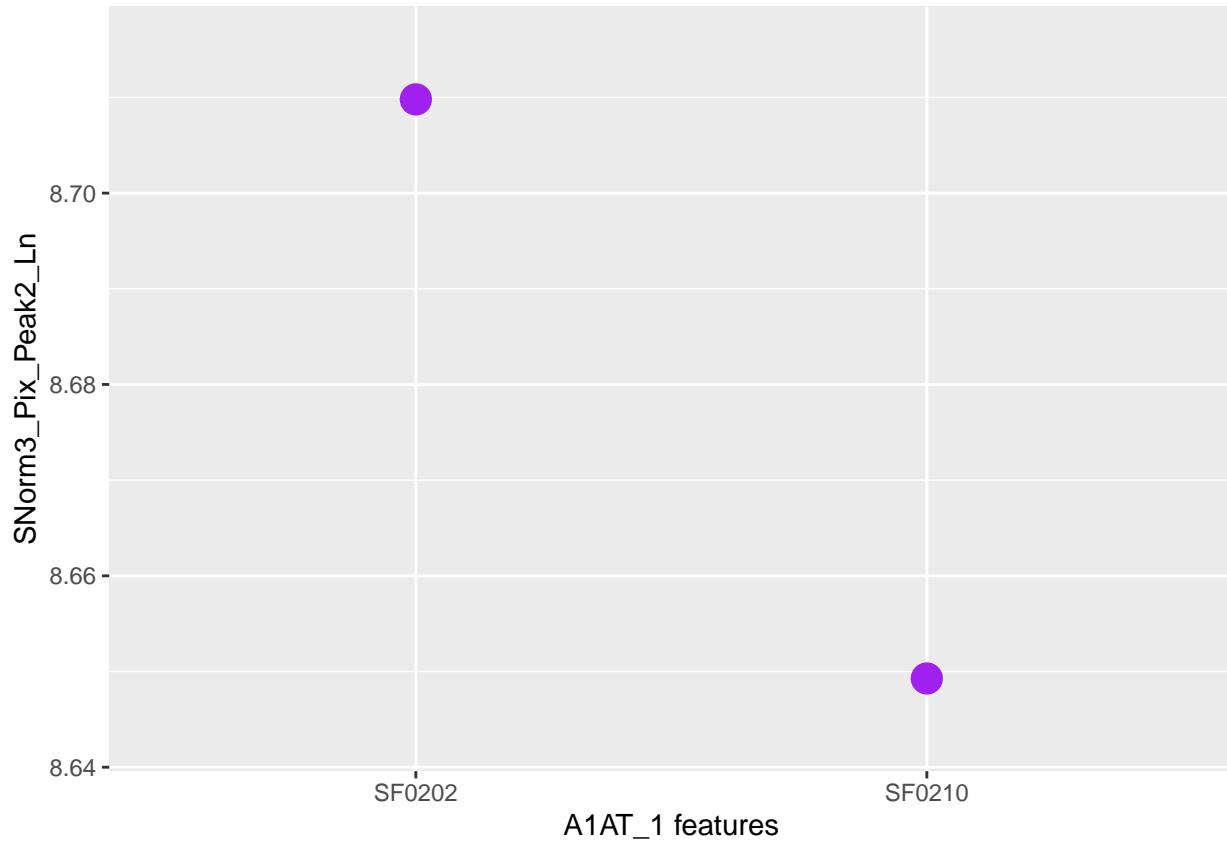
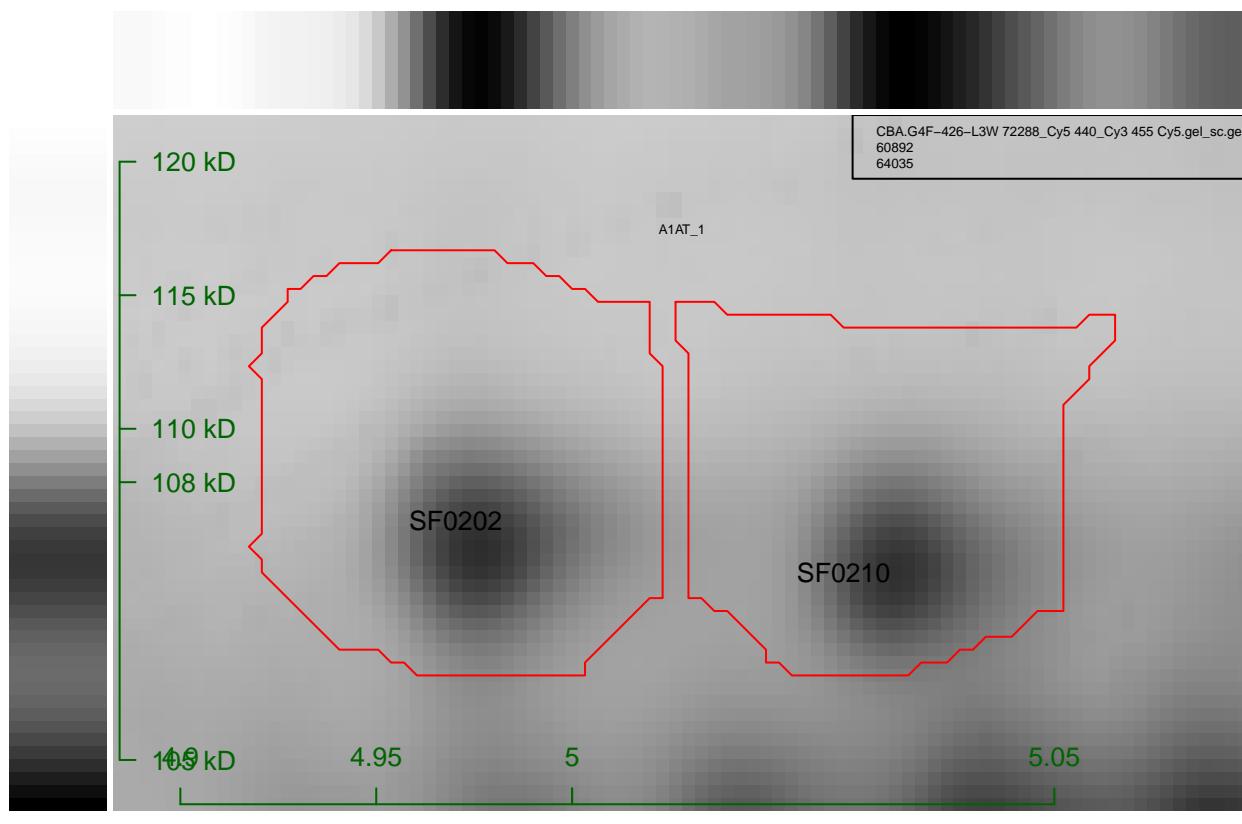
Alpha-1-antitrypsin (AAT), also known as alpha-1-protease inhibitor, alpha-1-antiproteinase or serpin A1, consists of 418 amino acids (including a 24 amino acid signal peptide) with an apparent mass of 51 kDa (including glycosylation). It is mainly produced in the liver by hepatocytes, but is also synthesized in monocytes, intestinal epithelial cells, and in the cornea [52, 208–211]. Due to its small size and polar properties, the glycoprotein can easily move into tissue fluids [52]. In healthy individuals, a plasma level of approximately 1.1 mg/mL is found, but the concentration can increase three- to four-fold during inflammation [212–215]. AAT occurs as three different amino acid sequences, of which the first is set as the standard sequence. Form 2 differs in the amino acid sequence 356–418 and form 3 lacks the amino acid sequence 307–418.

**CBA.G4F-426-L3W A1AT\_1**

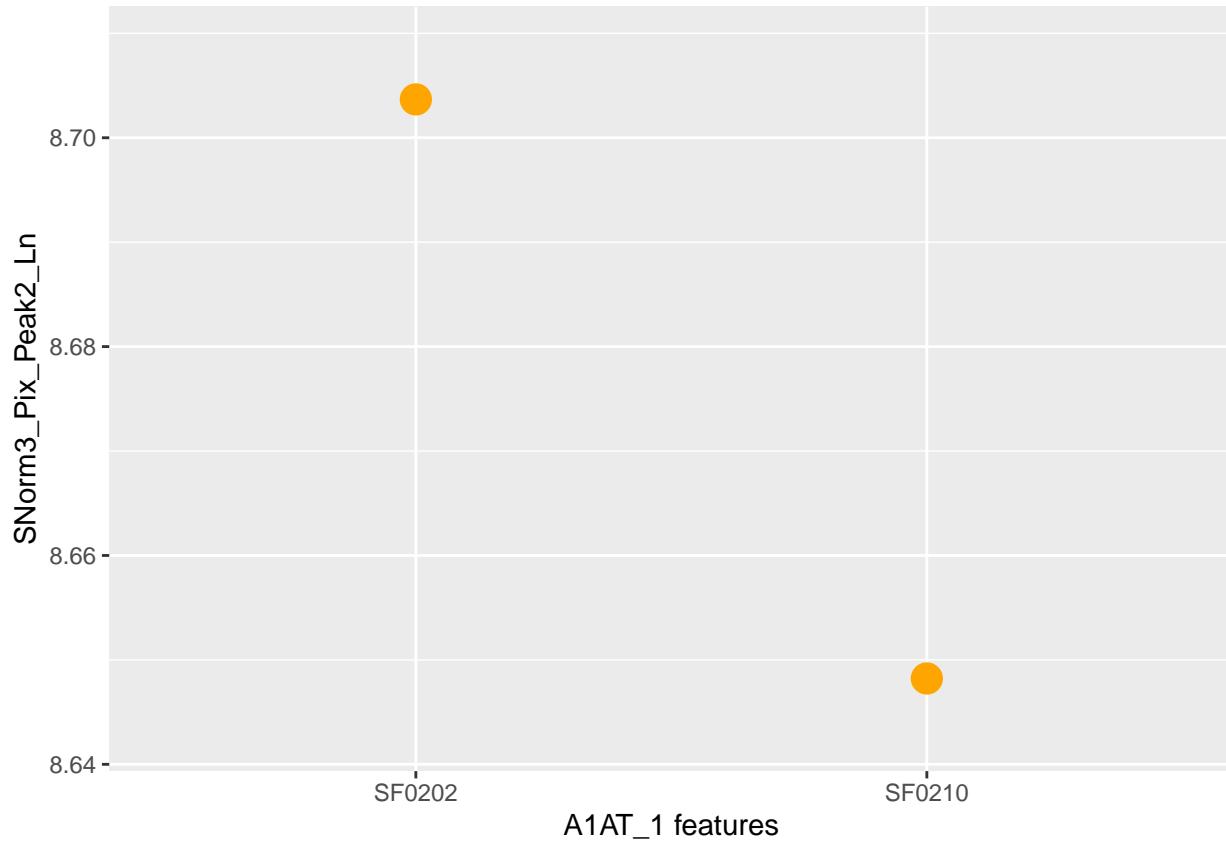
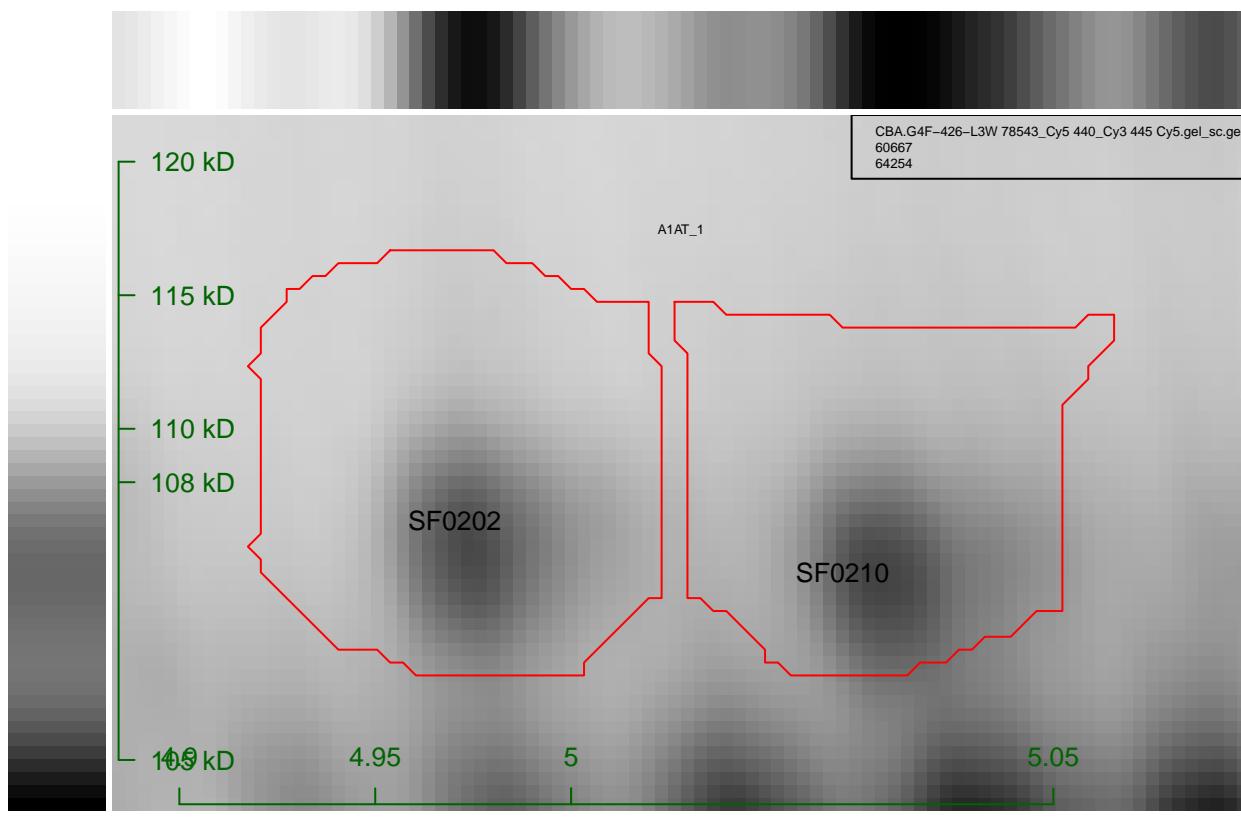
**Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel**

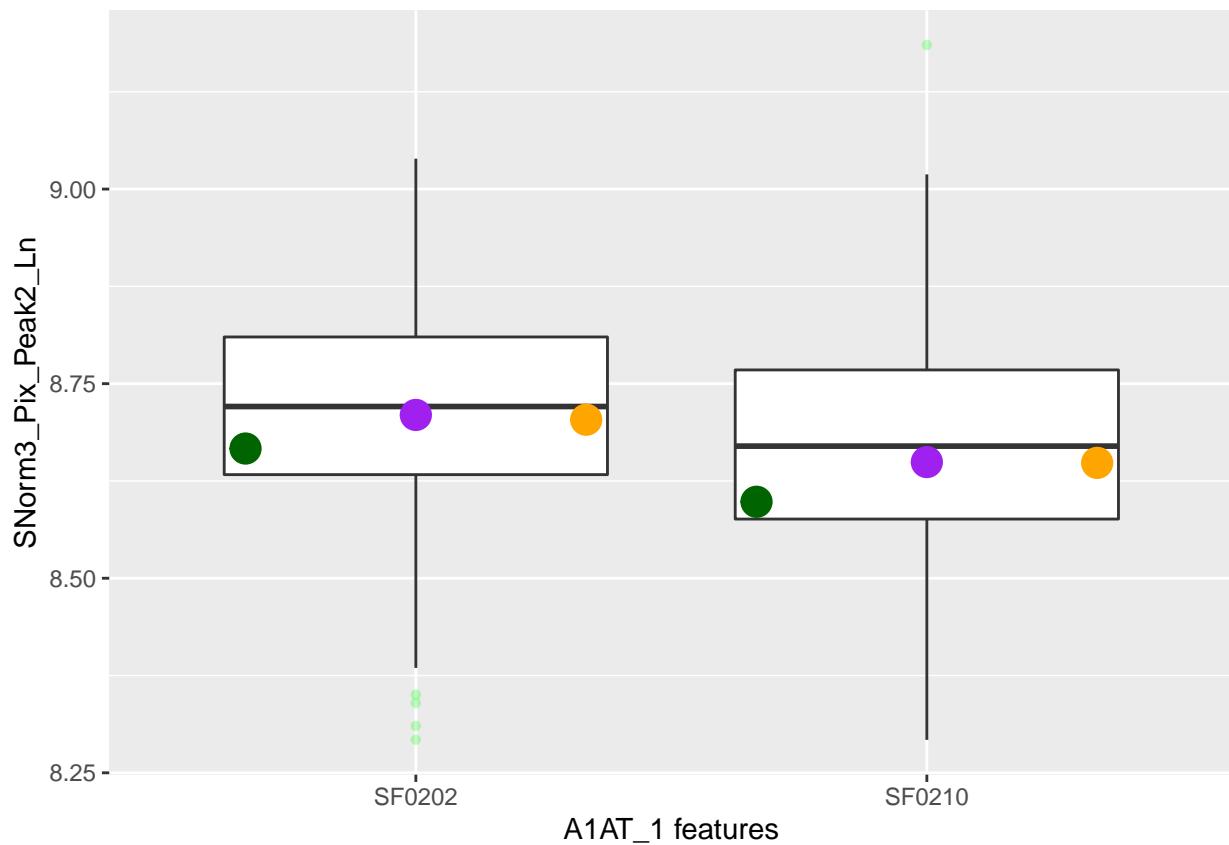


## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel



## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel

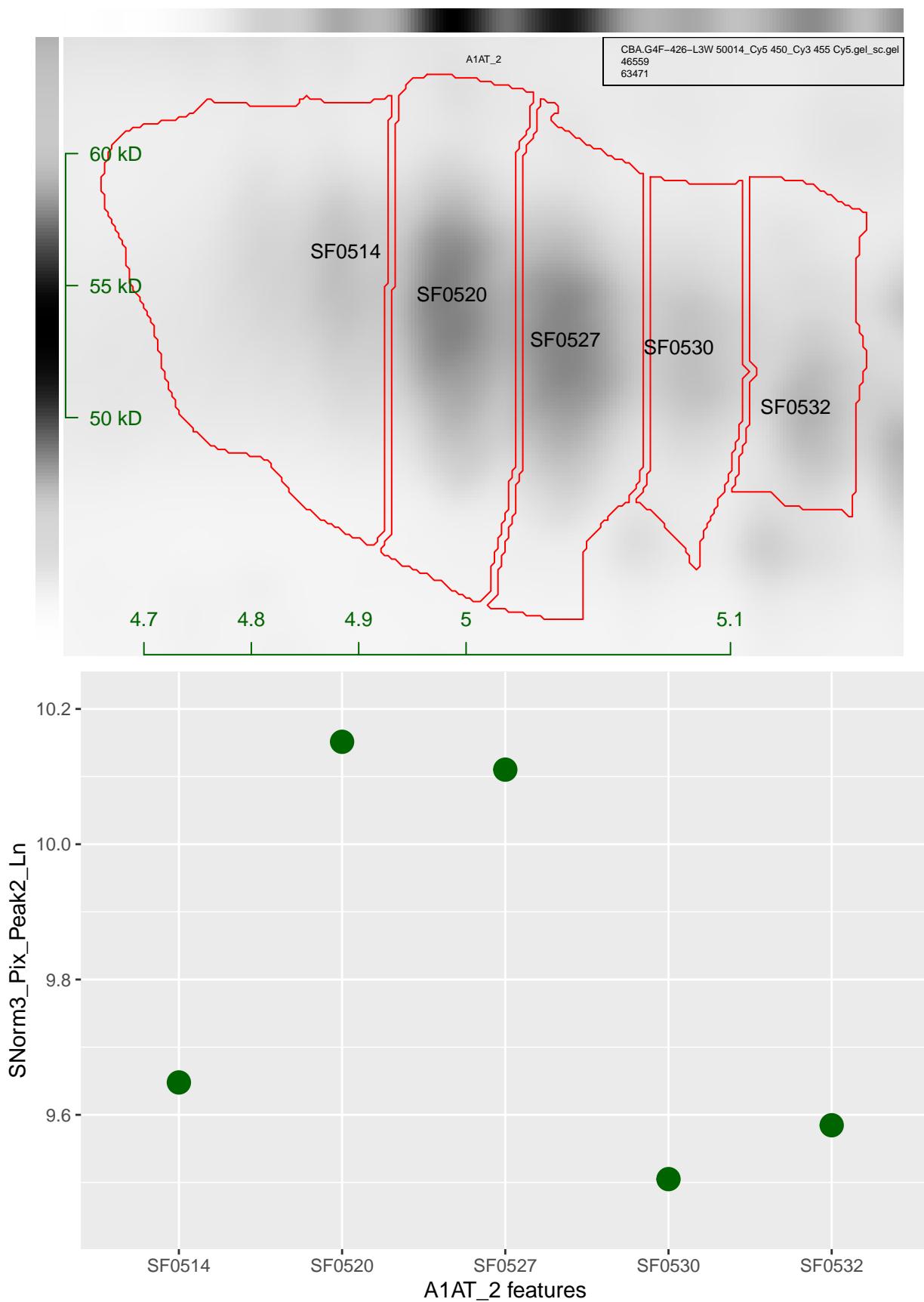




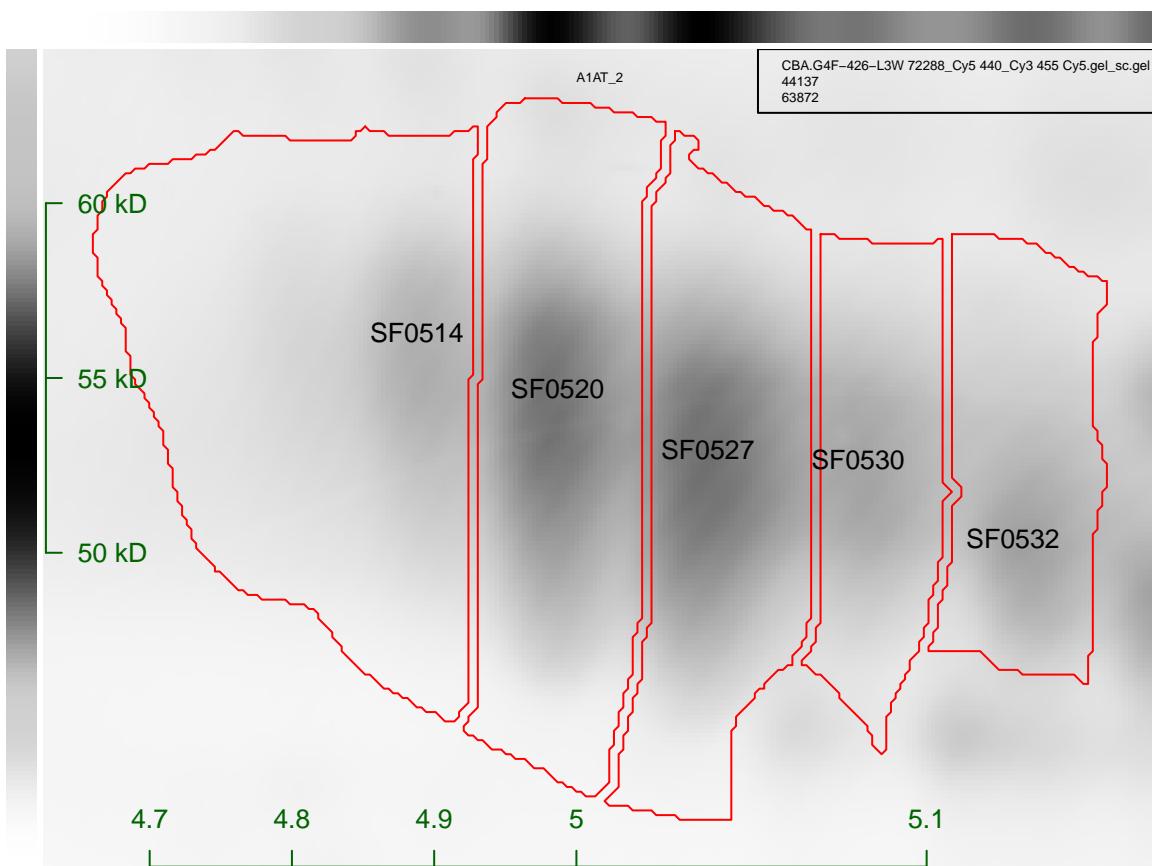
	SF0202	SF0210
50014_Cy5 450_Cy3 455 Cy5	8.666647	8.598220
72288_Cy5 440_Cy3 455 Cy5	8.709795	8.649273
78543_Cy5 440_Cy3 445 Cy5	8.703673	8.648222

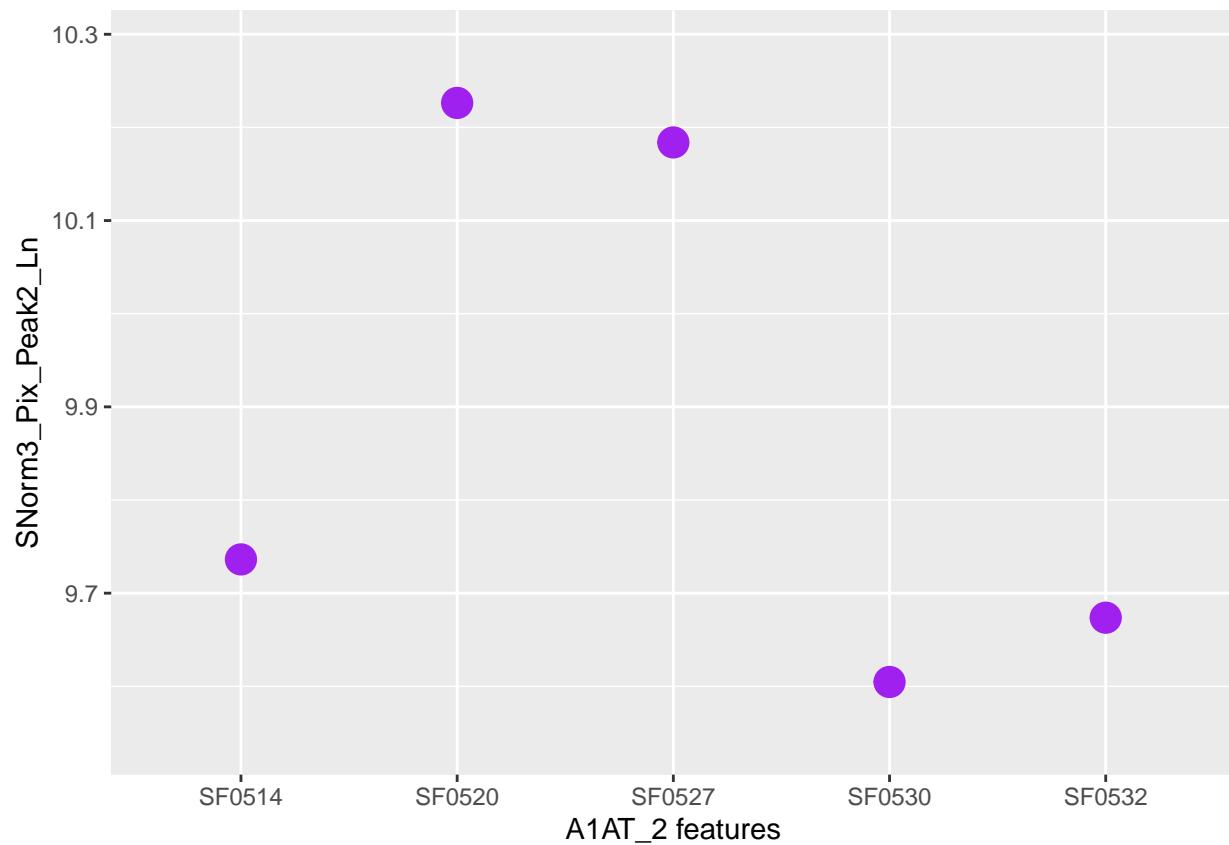
### CBA.G4F-426-L3W A1AT\_2

Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel

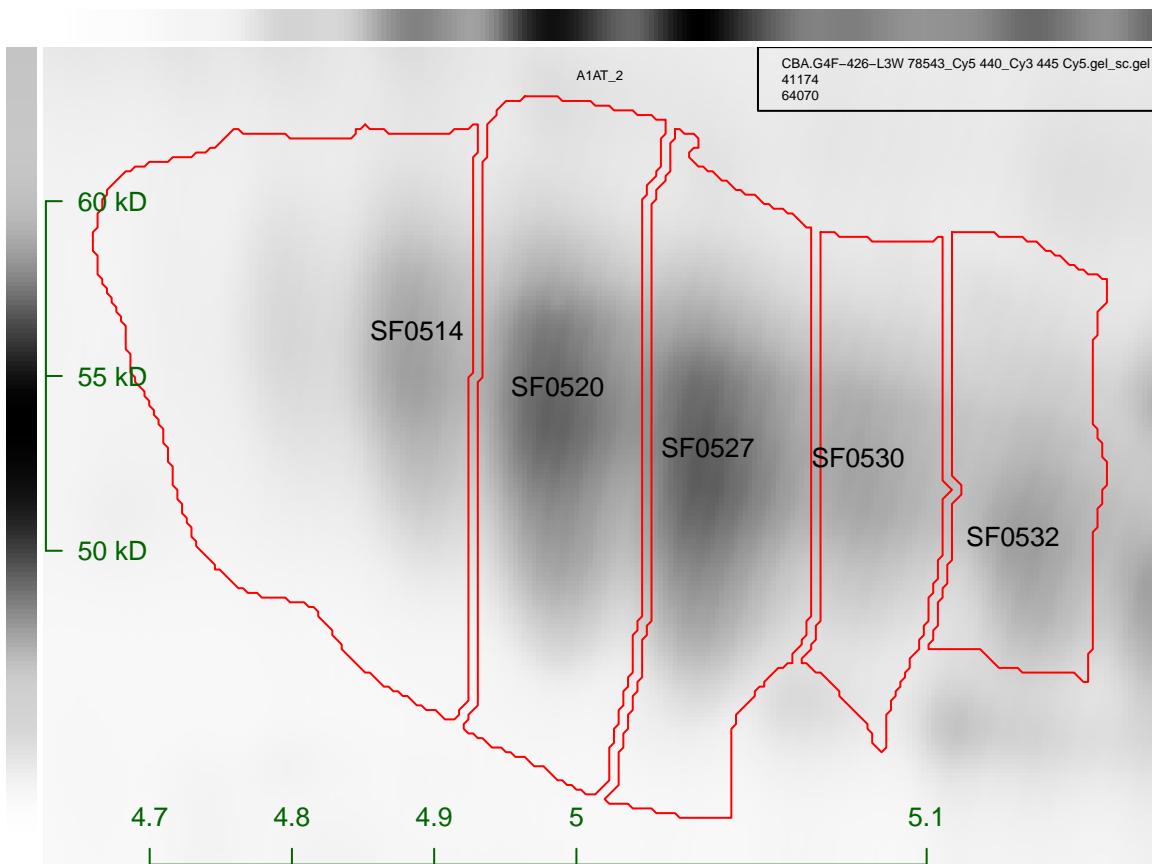


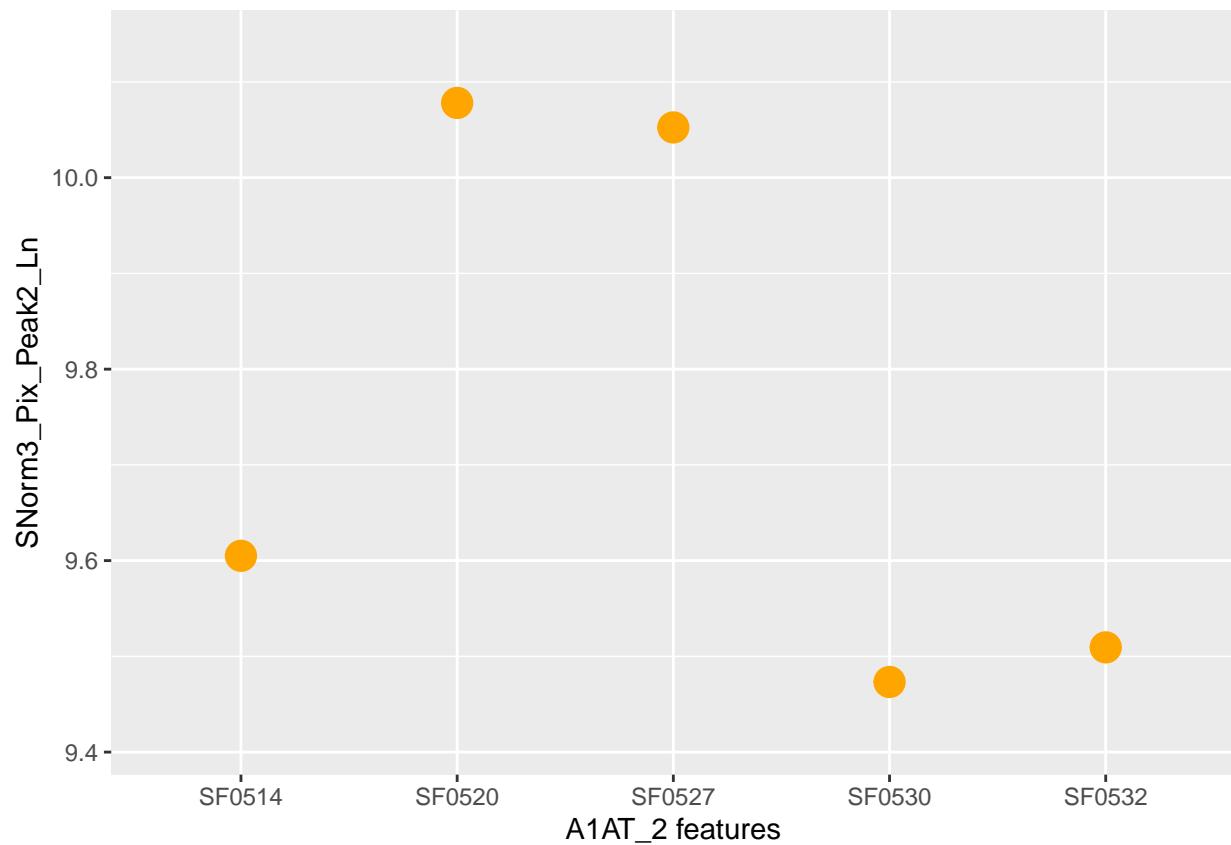
## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel

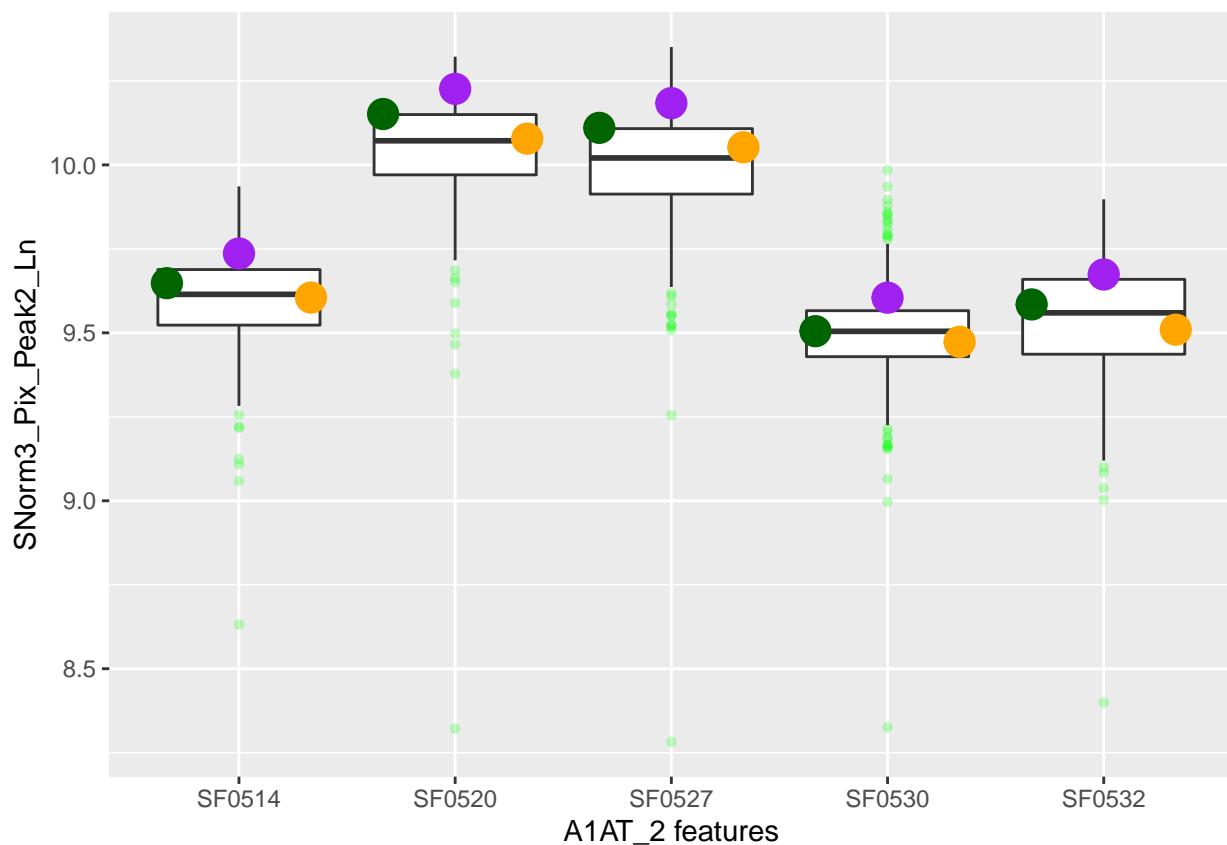




## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel

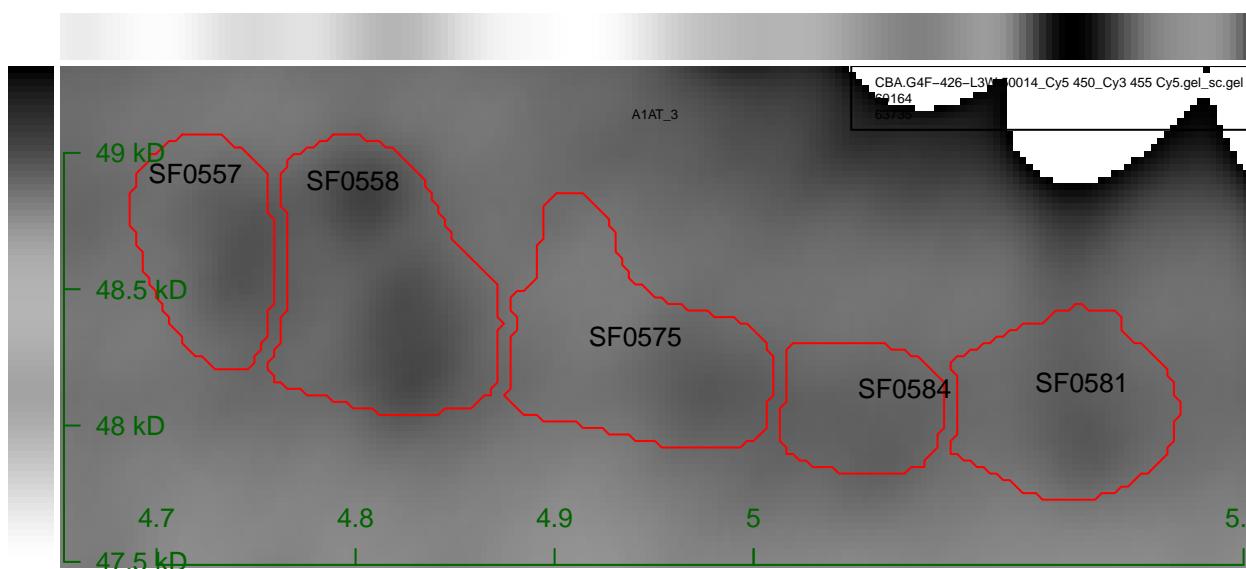


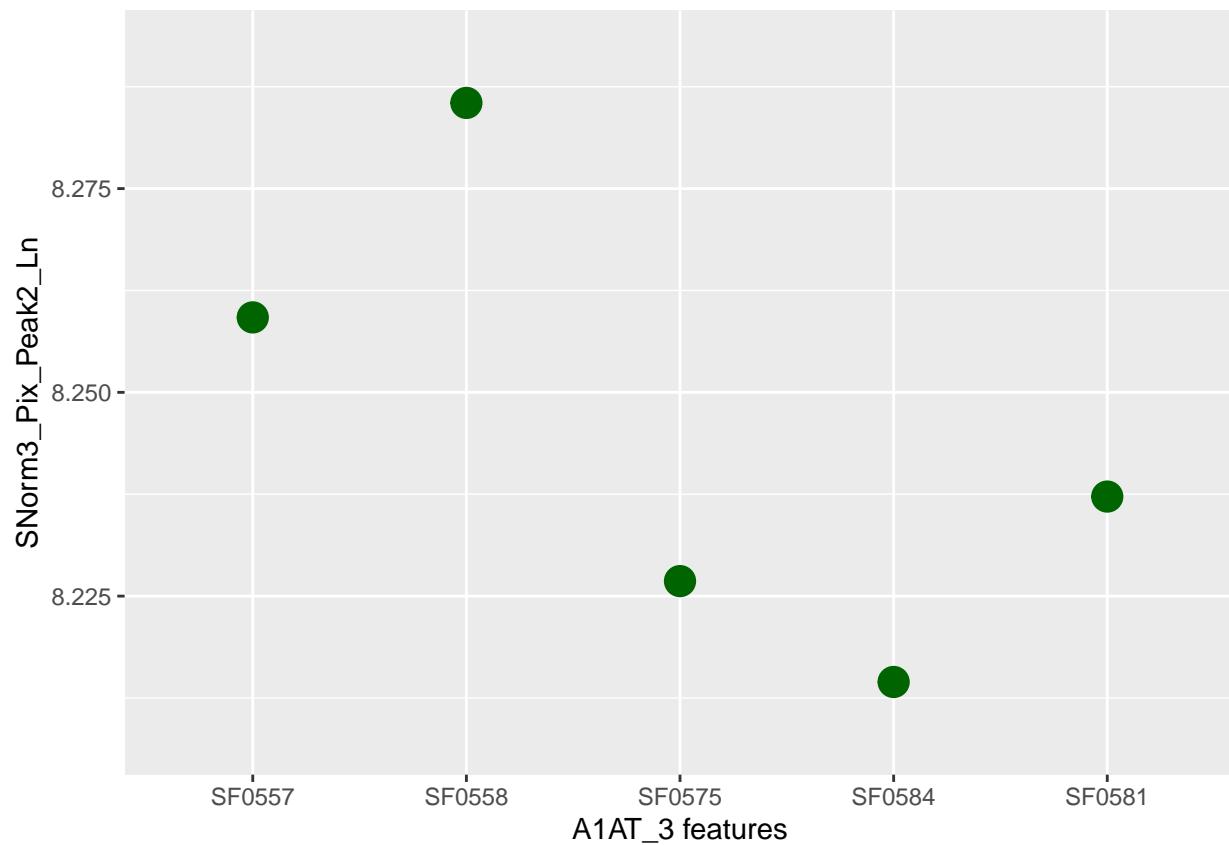




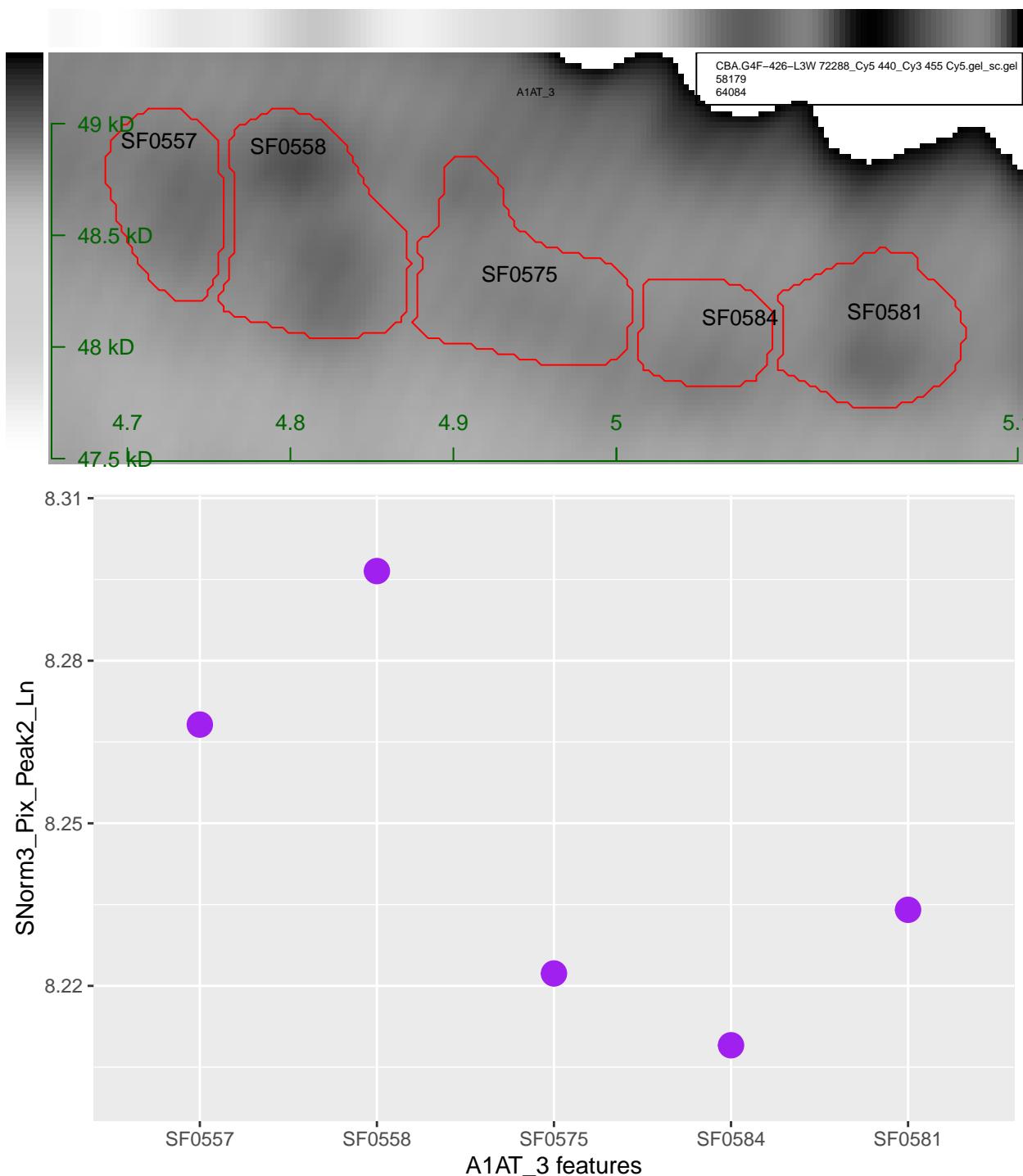
### CBA.G4F-426-L3W A1AT\_3

Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel

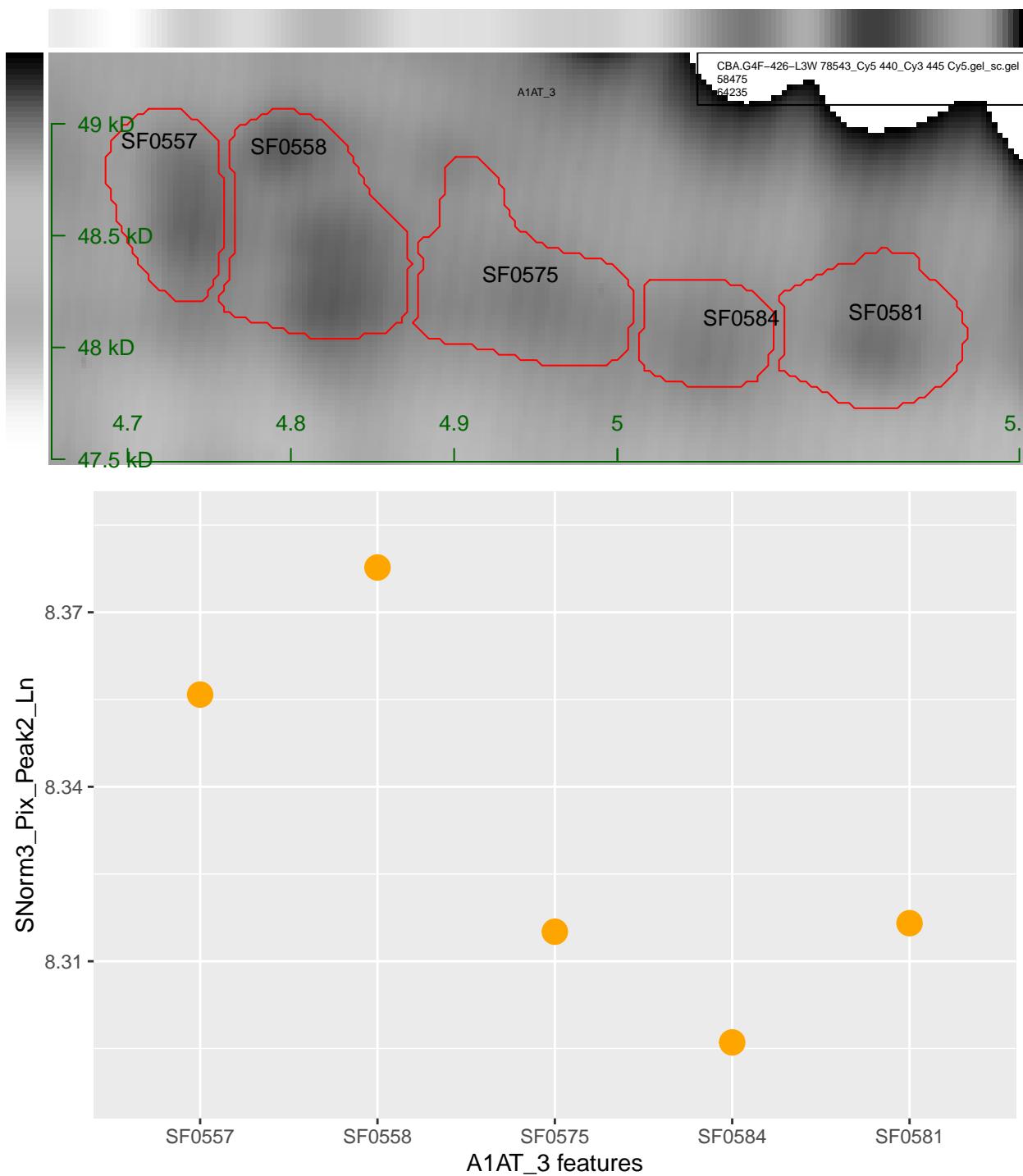


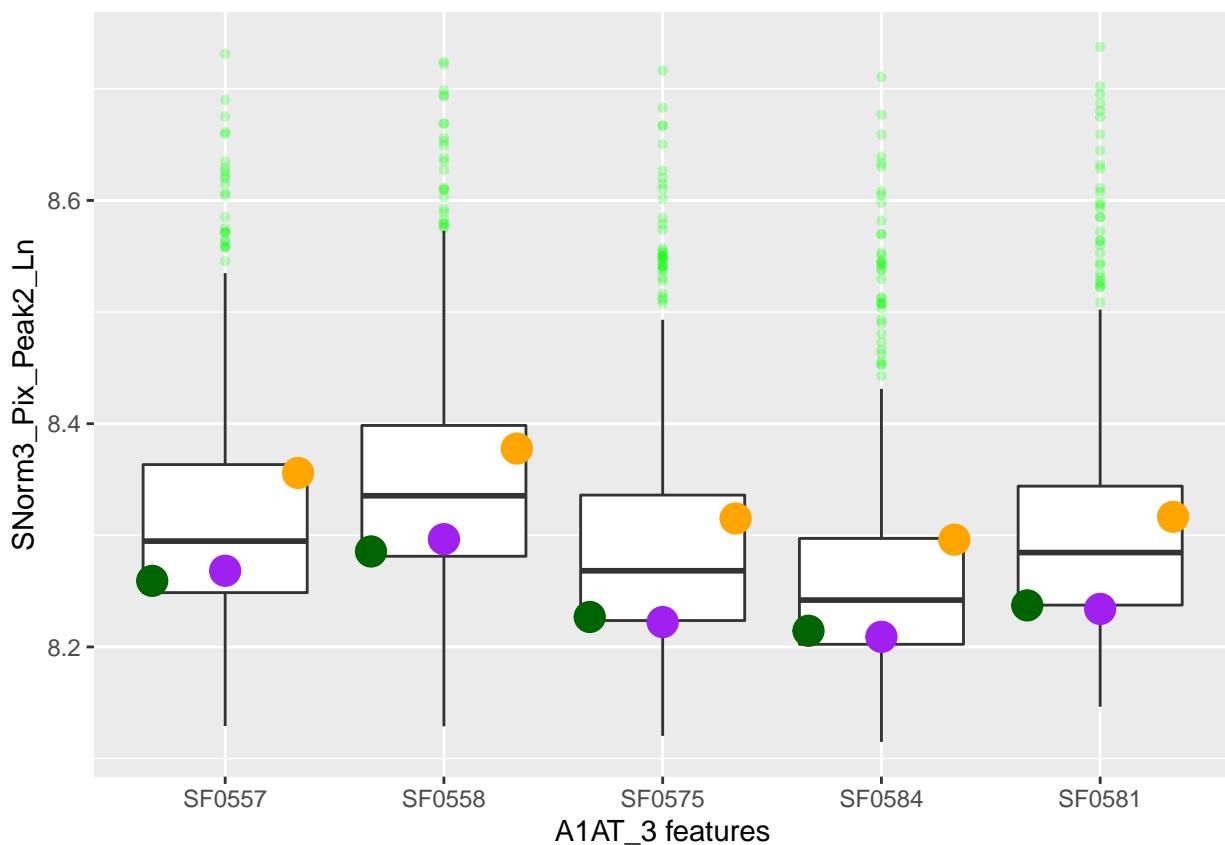


## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel



## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel





	SF0557	SF0558	SF0575	SF0584	SF0581
50014_Cy5 450_Cy3 455 Cy5	8.259199	8.285513	8.226841	8.214465	8.237215
72288_Cy5 440_Cy3 455 Cy5	8.268219	8.296546	8.222285	8.209036	8.234034
78543_Cy5 440_Cy3 445 Cy5	8.355850	8.377701	8.315077	8.296048	8.316545

## Haptoglobin (P00738)

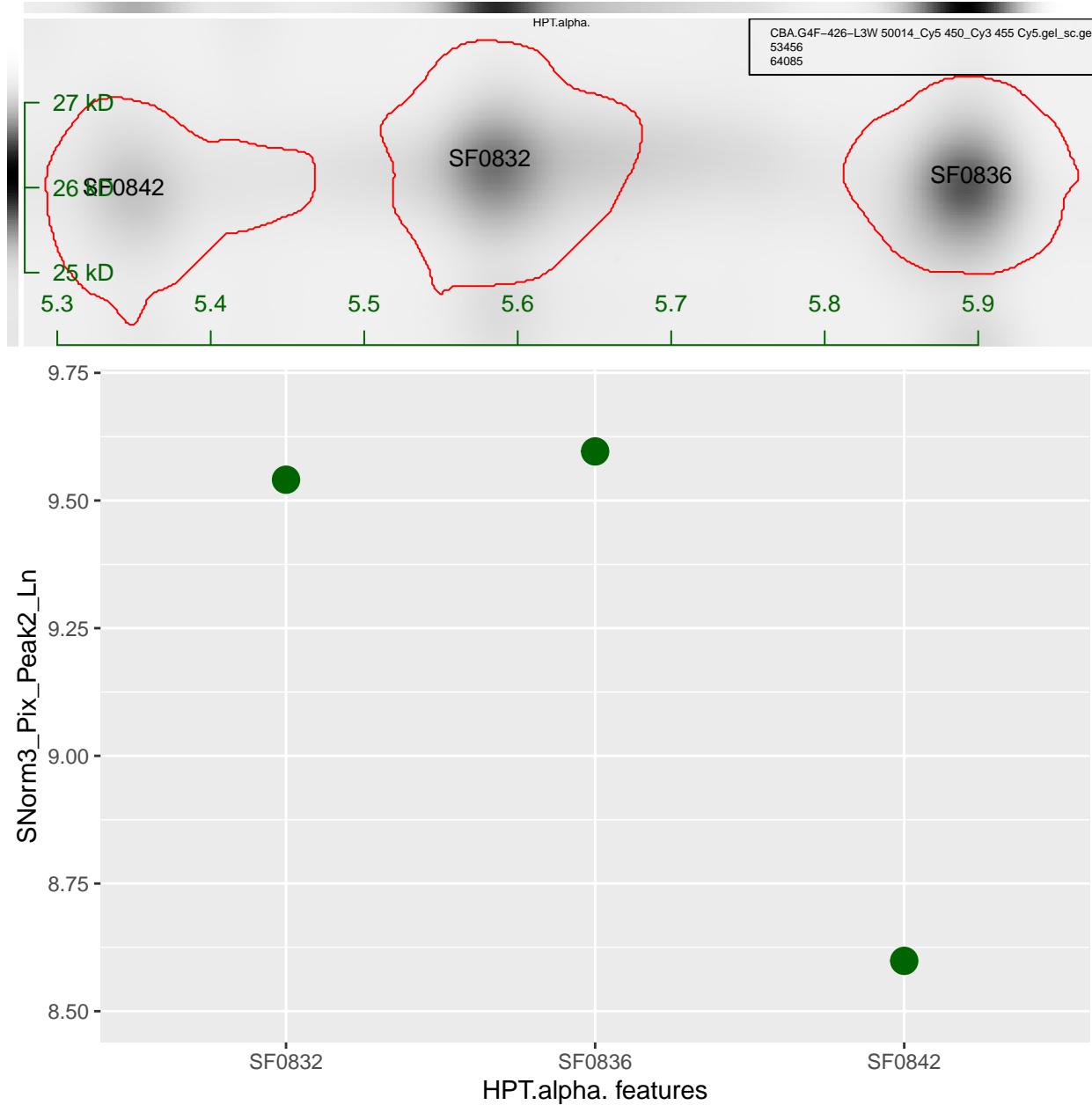
From: Human plasma protein N-glycosylation

Haptoglobin (Hp) is a 406 amino acid (18 amino acid signal peptide) acute-phase glycoprotein with a peptide backbone of 45 kDa. It is synthesized in the liver by hepatocytes as a single polypeptide chain and is also found in skin [304, 305]. During its synthesis, Hp is cleaved into a light α chain and a heavy β chain that are connected via disulfide bonds. Two variants of the α chain originating from the sequence Val19-Gln160 and differing by the subsequence Glu38-Pro96 can exist, α1 having this subsequence once while α2 has it twice, resulting in chains of 83 or 142 amino acids with a respective molecular mass of 9 and 16 kDa. The 40 kDa β chain is made of 245 amino acids originating from the sequence Ile162-Asn406 [306, 307]. The combination of different allelic variants of the α chain (α1 and α2) with β chain(s) creates the polymorphism observed in Hp. There are three major Hp phenotypes called Hp1-1, Hp2-1 and Hp2-2. They have a configuration of  $(\alpha_1\beta)_2$ ,  $(\alpha_1\beta)_2 + (\alpha_2\beta)_n = 0, 1, 2, \dots$  and  $(\alpha_2\beta)_n = 3, 4, 5, \dots$ , respectively, which are observed at different ratios among ethnicities [118, 308–310]. Caucasians have around 13 % of phenotype Hp1-1, 46 % of Hp2-1 and 41 % of Hp2-2. Hp is typically found at a plasma levels in the range of 0.6–2.3 mg/mL with a mean of 1.32 mg/mL [118]. Elevated Hp levels have been reported with inflammation and malignant diseases [308, 311, 312]. It should be taken into account that the concentration as well as the molecular mass including glycosylation may vary among phenotypes (86–900 kDa) [118]. The half-life of Hp is found to be on average four days.

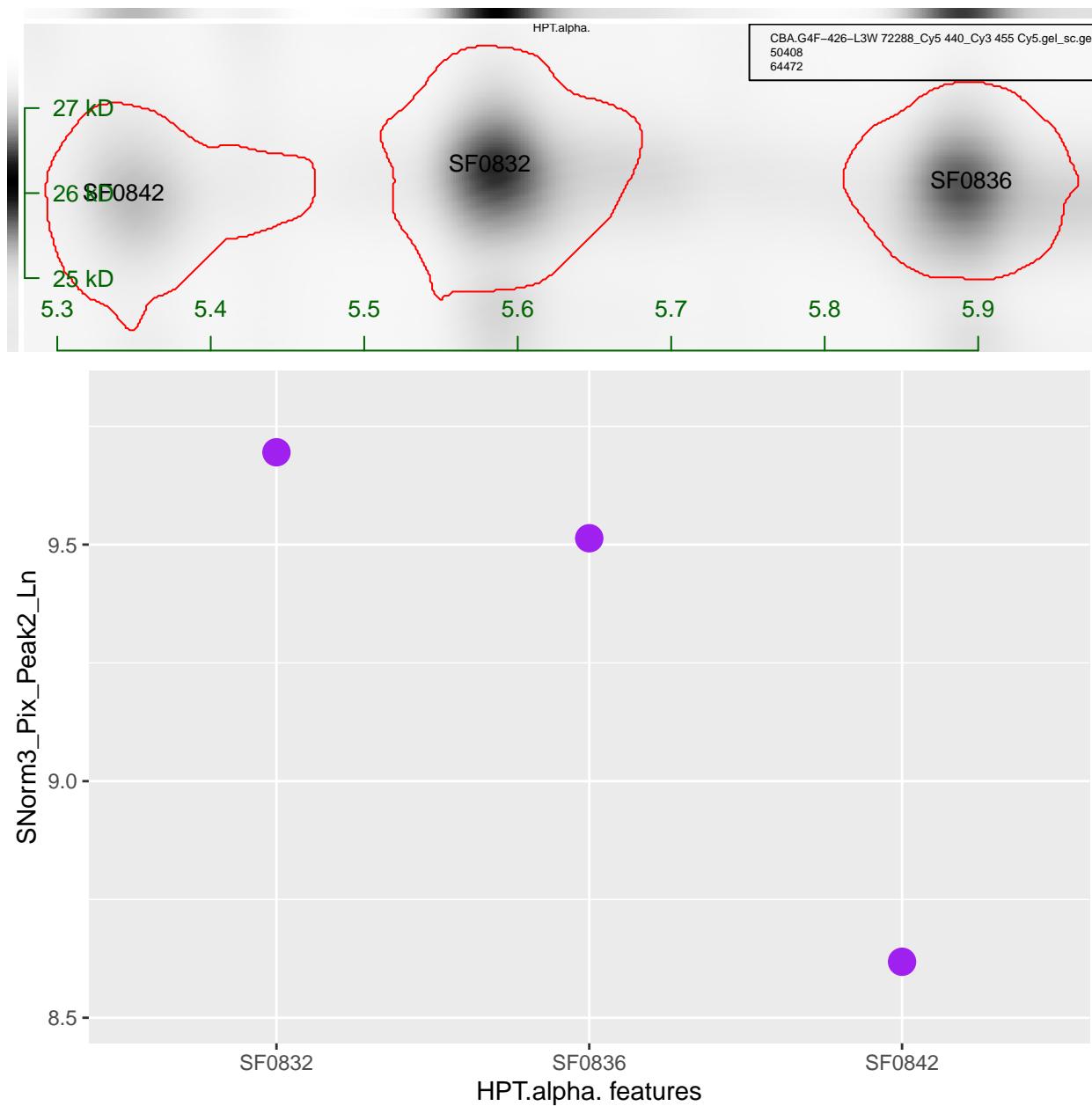
The major function of Hp is to protect tissues from oxidative damage by capturing hemoglobin [307, 313]. It has been reported that Hp polymorphism has an effect on its physiological properties, for instance Hp1-1 binds hemoglobin stronger than Hp2-2 [314]. Certain diseases seem to be dependent on the polymorphism, as individuals with the Hp1-1 phenotype seem to have a higher concentration of induced antibodies in their plasma after vaccination, infections or liver diseases compared to the other phenotypes [118, 310].

### CBA.G4F-426-L3W HPT.alpha.

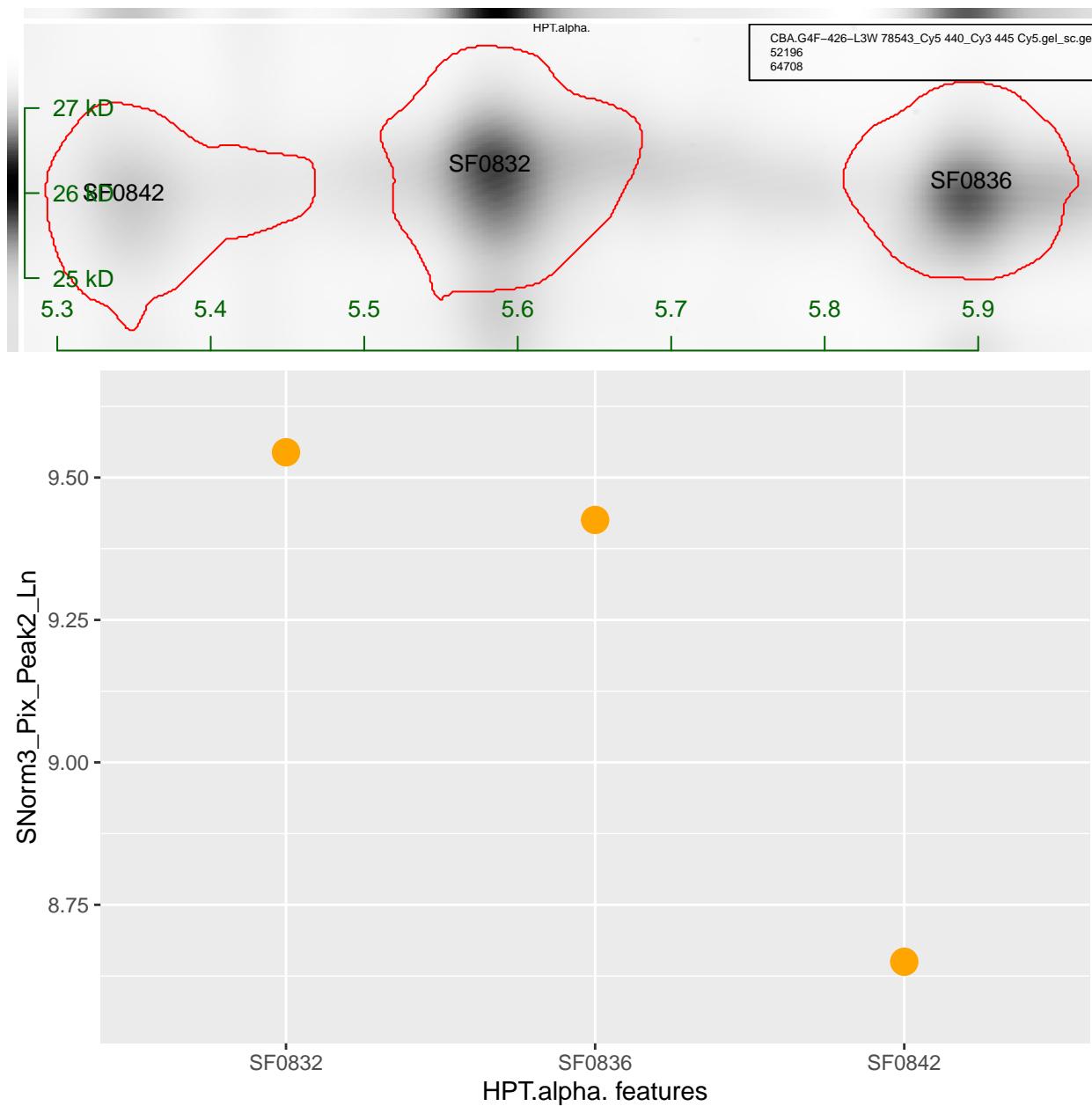
#### Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel

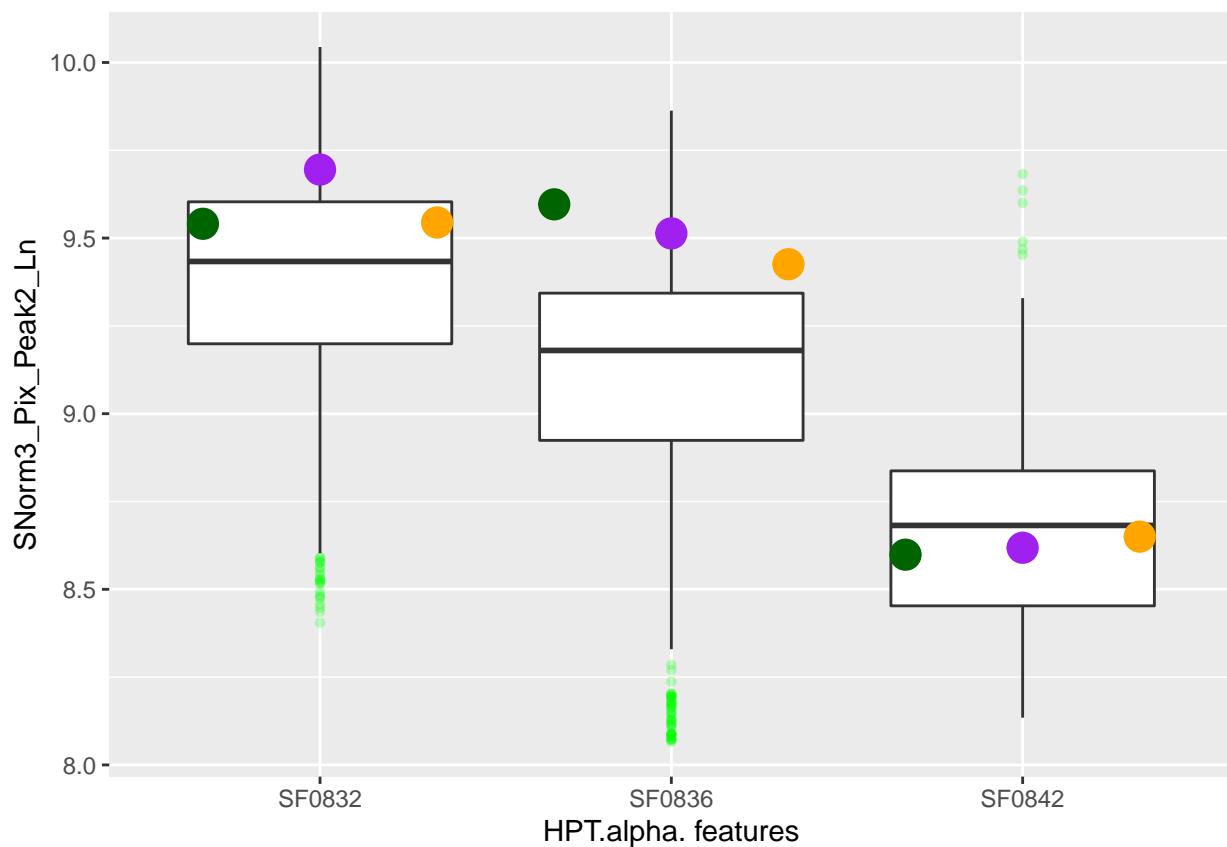


## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel



## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel

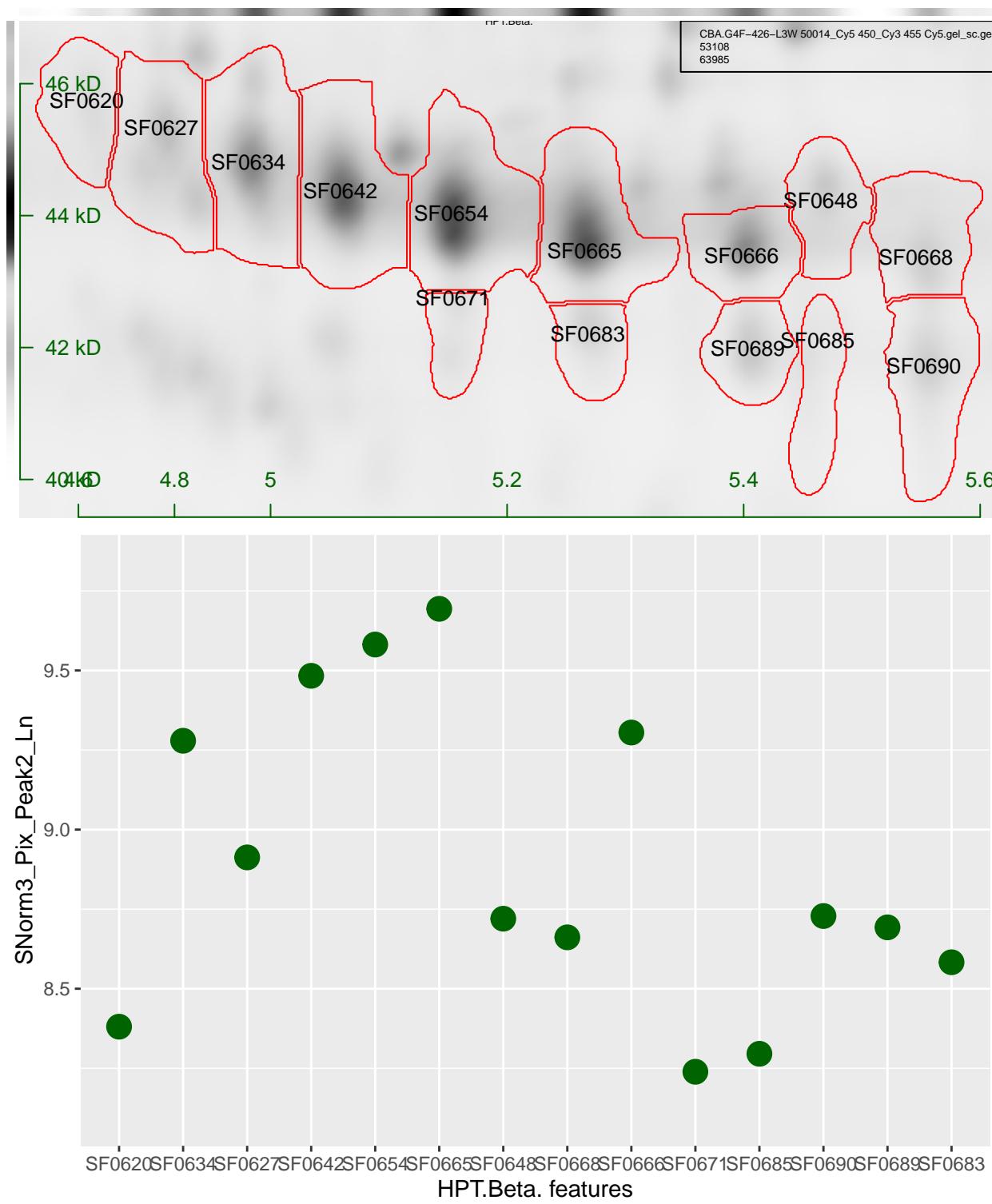




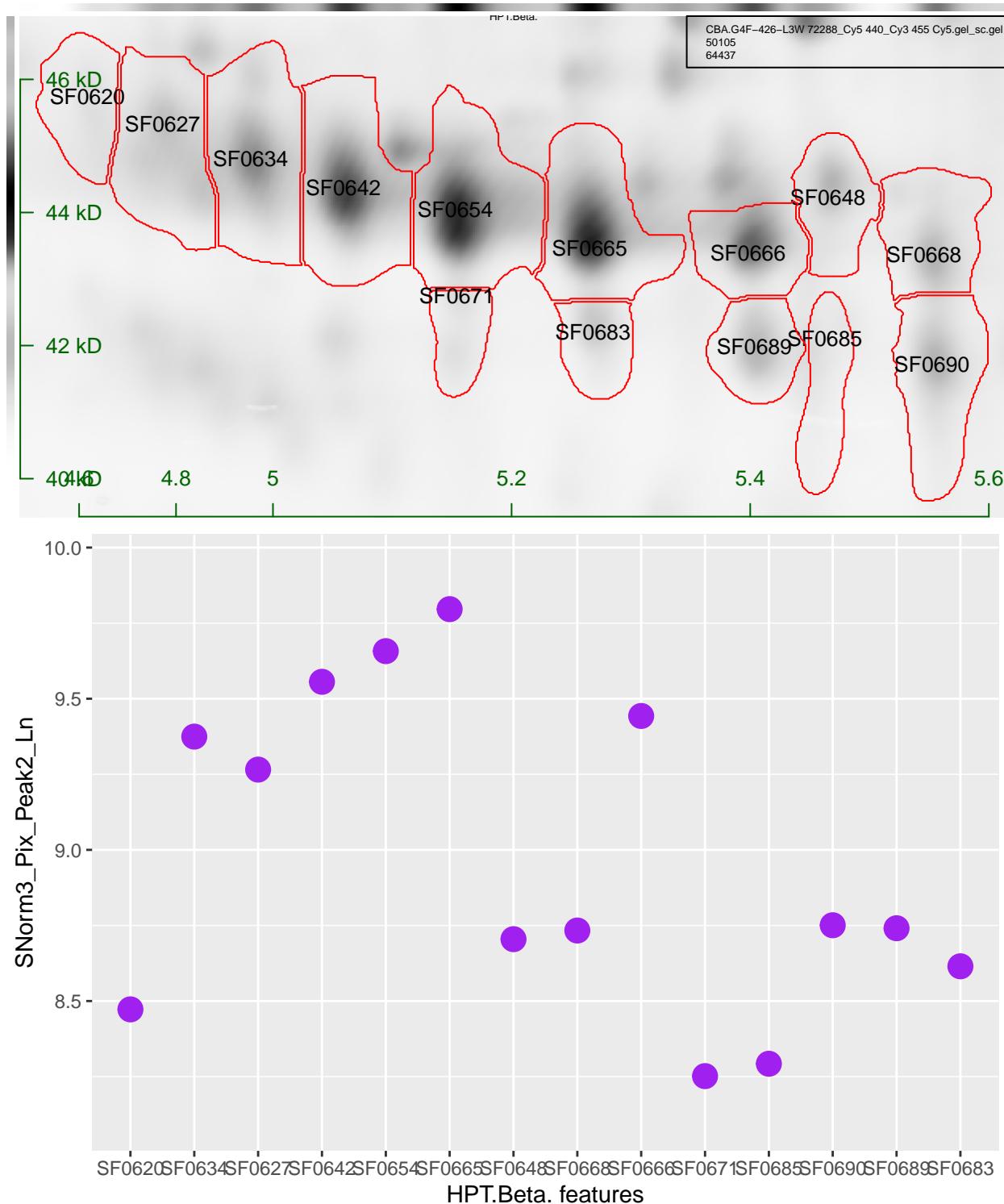
	SF0832	SF0836	SF0842
50014_Cy5 450_Cy3 455 Cy5	9.540723	9.596079	8.598589
72288_Cy5 440_Cy3 455 Cy5	9.695109	9.513404	8.618305
78543_Cy5 440_Cy3 445 Cy5	9.544381	9.425613	8.649974

#### CBA.G4F-426-L3W HPT.Beta.

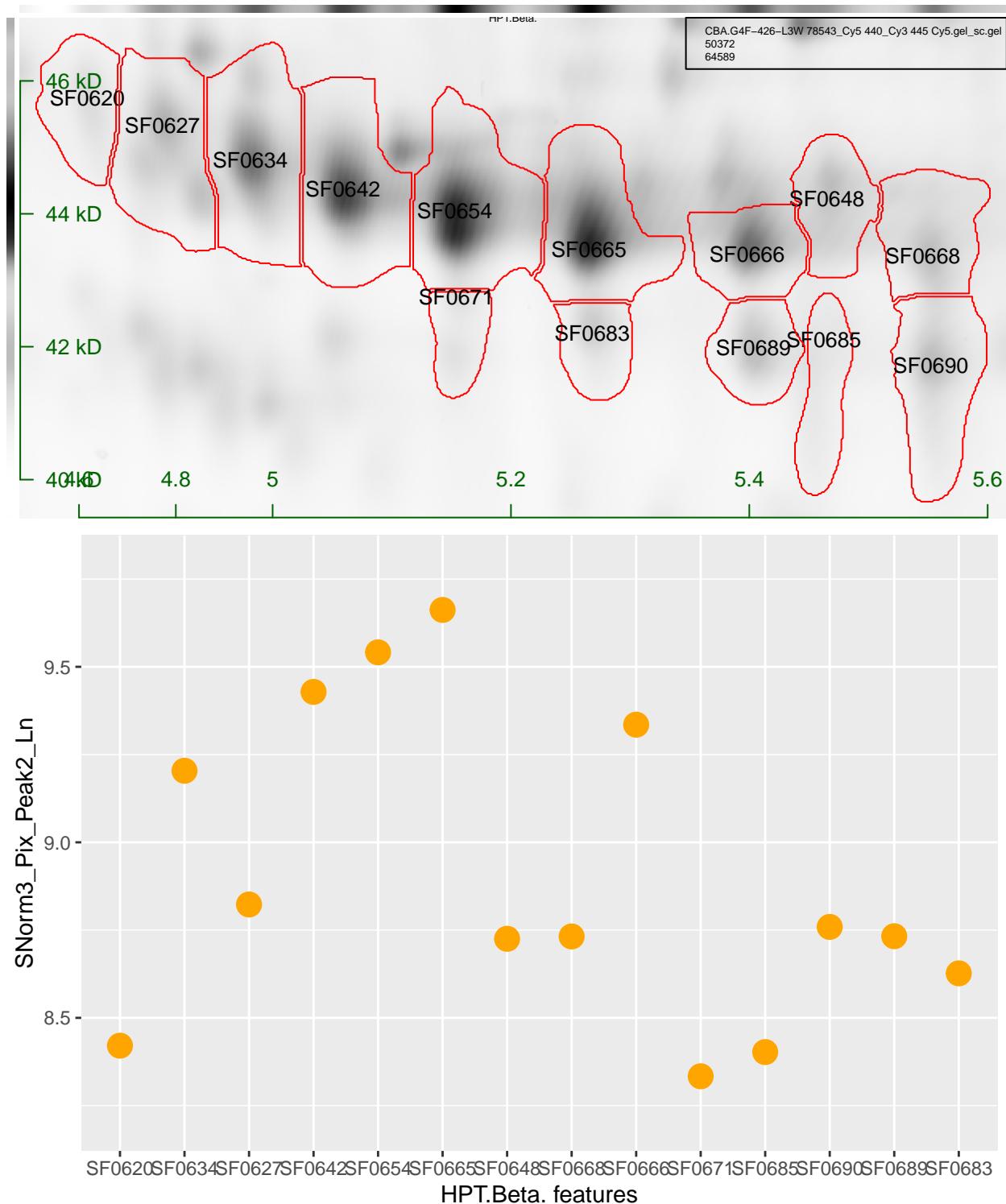
Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel

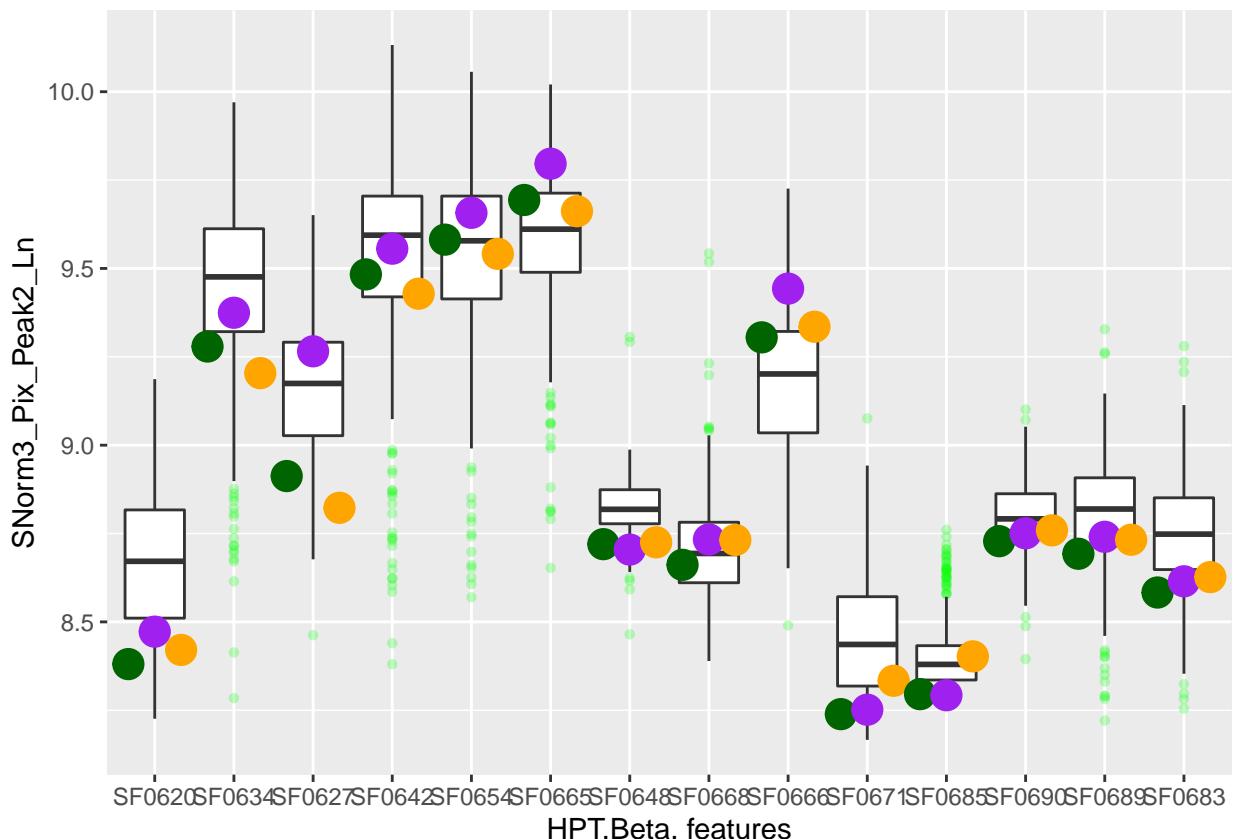


## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel



## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel





	SF0620	SF0634	SF0627	SF0642	SF0654	SF0665
50014_Cy5 450_Cy3 455 Cy5	8.380686	9.279120	8.912608	9.483188	9.581490	9.693692
72288_Cy5 440_Cy3 455 Cy5	8.472405	9.374668	9.265586	9.555985	9.657395	9.796292
78543_Cy5 440_Cy3 445 Cy5	8.420682	9.203819	8.822912	9.428512	9.541297	9.661989
	SF0648	SF0668	SF0666	SF0671	SF0685	SF0690
50014_Cy5 450_Cy3 455 Cy5	8.719971	8.661467	9.305014	8.239065	8.295549	8.728426
72288_Cy5 440_Cy3 455 Cy5	8.704668	8.733272	9.442959	8.251664	8.292549	8.750683
78543_Cy5 440_Cy3 445 Cy5	8.725183	8.731821	9.335121	8.333511	8.402456	8.759041
	SF0689	SF0683				
50014_Cy5 450_Cy3 455 Cy5	8.692826	8.583168				
72288_Cy5 440_Cy3 455 Cy5	8.740817	8.614864				
78543_Cy5 440_Cy3 445 Cy5	8.732466	8.626765				

## Transferrin (P02787)

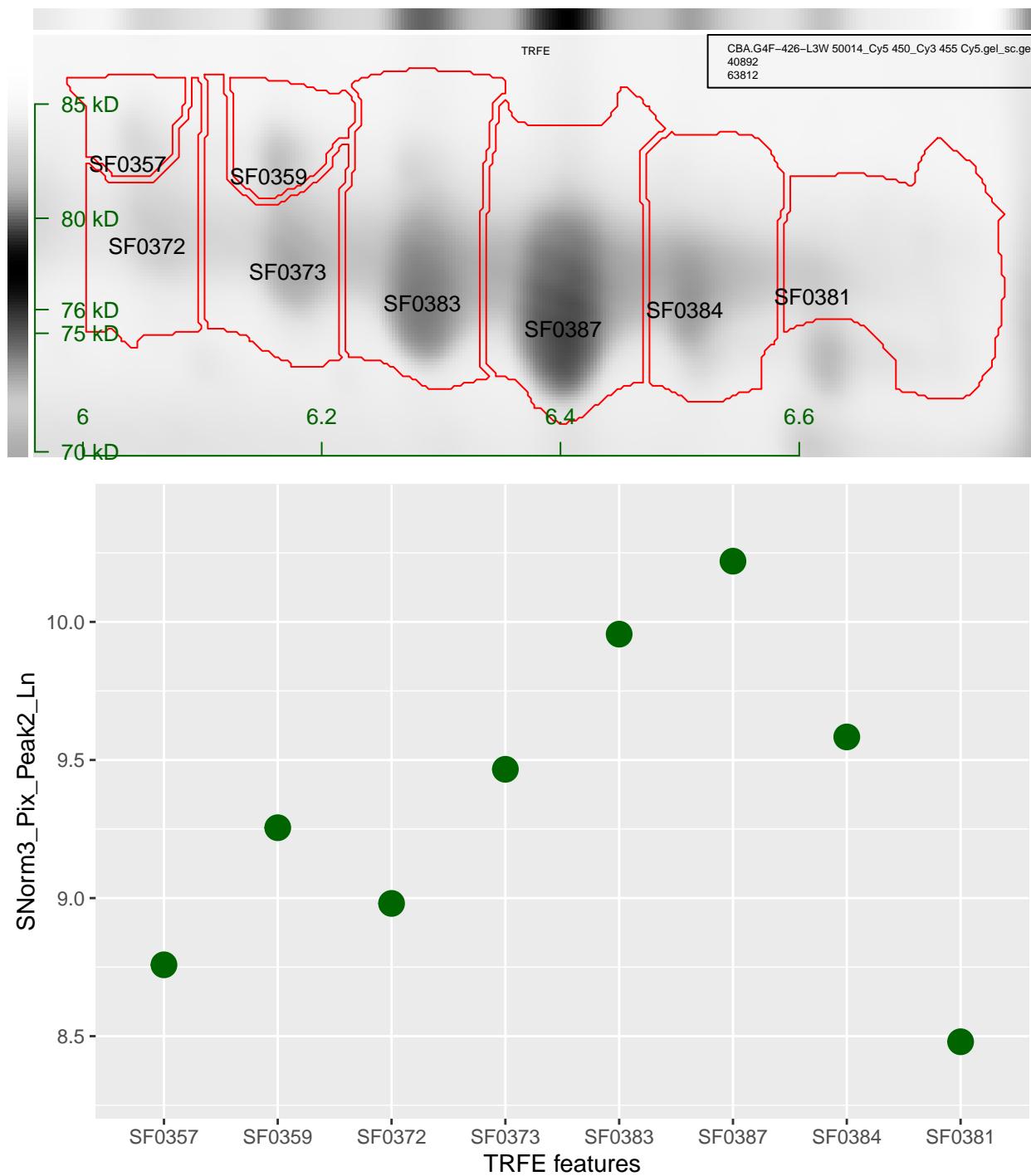
From: Human plasma protein N-glycosylation

Serotransferrin (STF), also known as transferrin,  $\beta$ 1 metal binding globulin or siderophilin, is a 698 amino acid protein (19 amino acids of which are signal peptide) with a molecular mass of approximately 77 kDa (without glycosylation) [8, 337]. The protein consists of two globular domains, the N-lobe and the C-lobe which divided into two subdomains each (N1, N2, C1 and C2). The two main domains are connected by a short linker peptide [337–339]. The N-lobe is 336 amino acids in size and spans from Val25 to Glu347, while the C-lobe is 343 amino acids long and ranges from Val361 to Lys683 [337]. The lobes can interact to form a hydrophilic metal ion binding site [337]. STF is mostly produced by hepatocytes, although other tissues have also

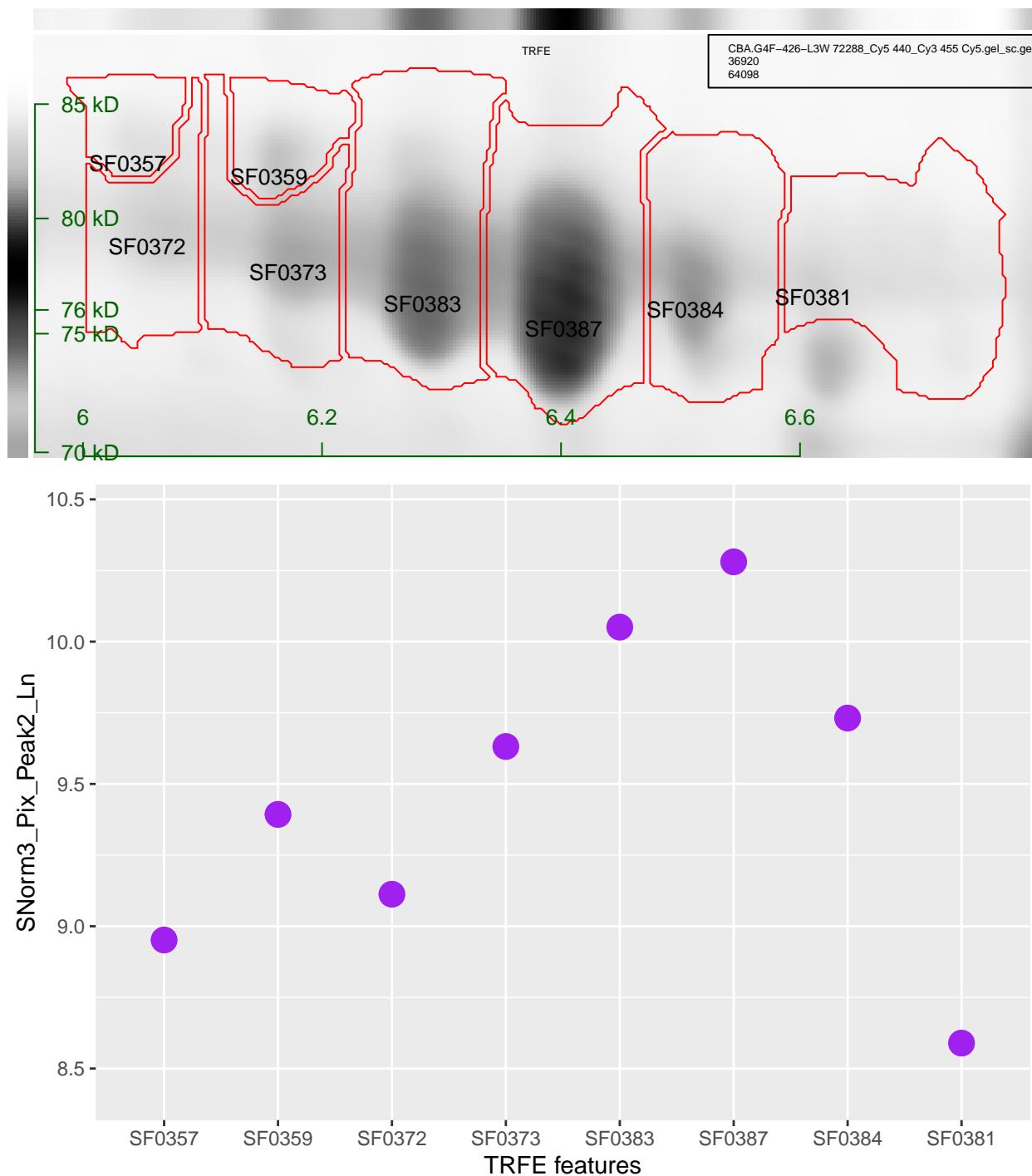
shown expression, albeit at significantly lower amounts [337]. The plasma concentration is highly stable from the age of 2 years on, with a range between 2 and 3 mg/mL [337, 340]. Levels may increase during pregnancy up to 5 mg/mL [141].

### CBA.G4F-426-L3W TRFE

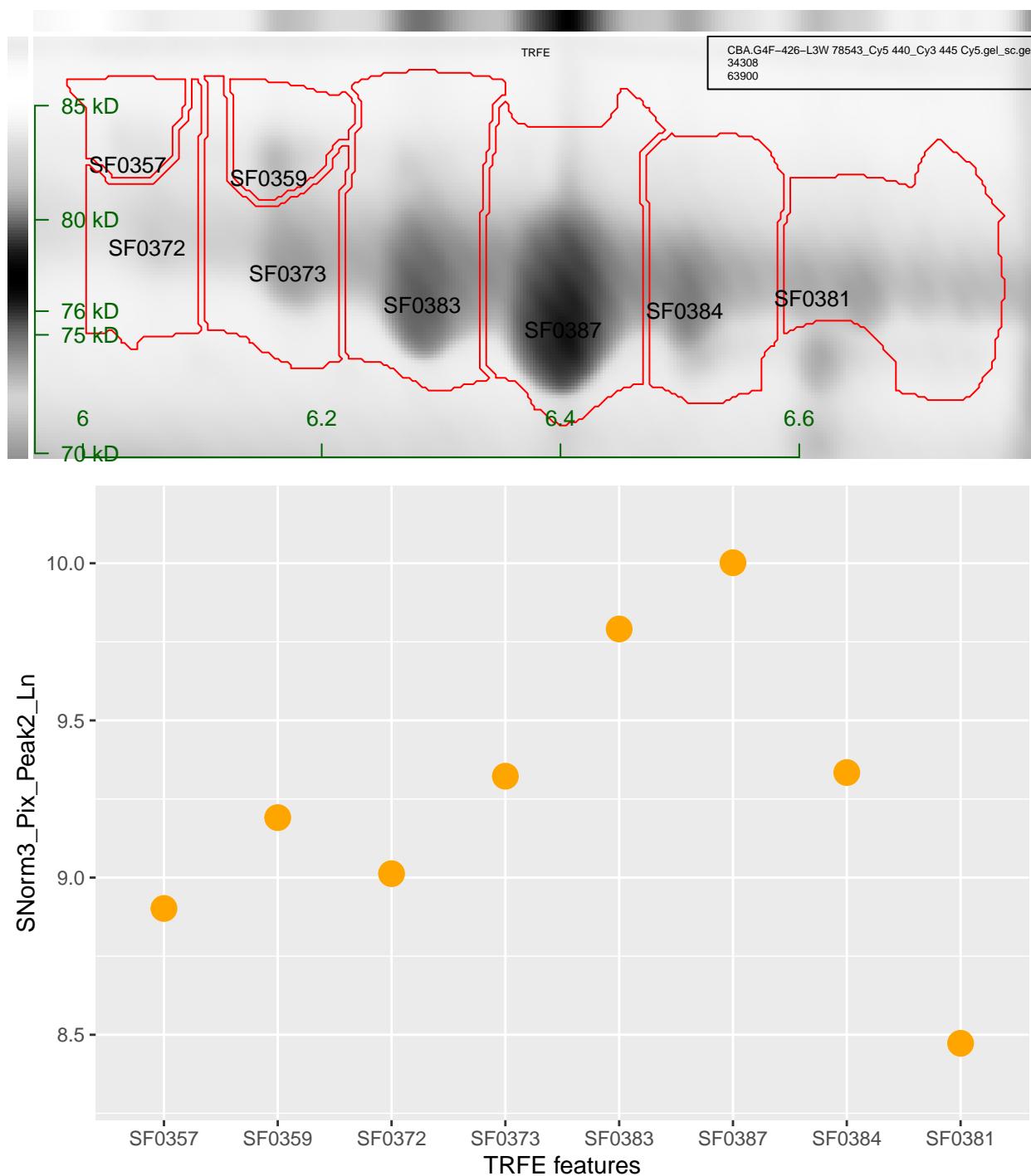
#### Replicate 1 : 50014\_Cy5 450\_Cy3 455 Cy5.gel\_sc.gel

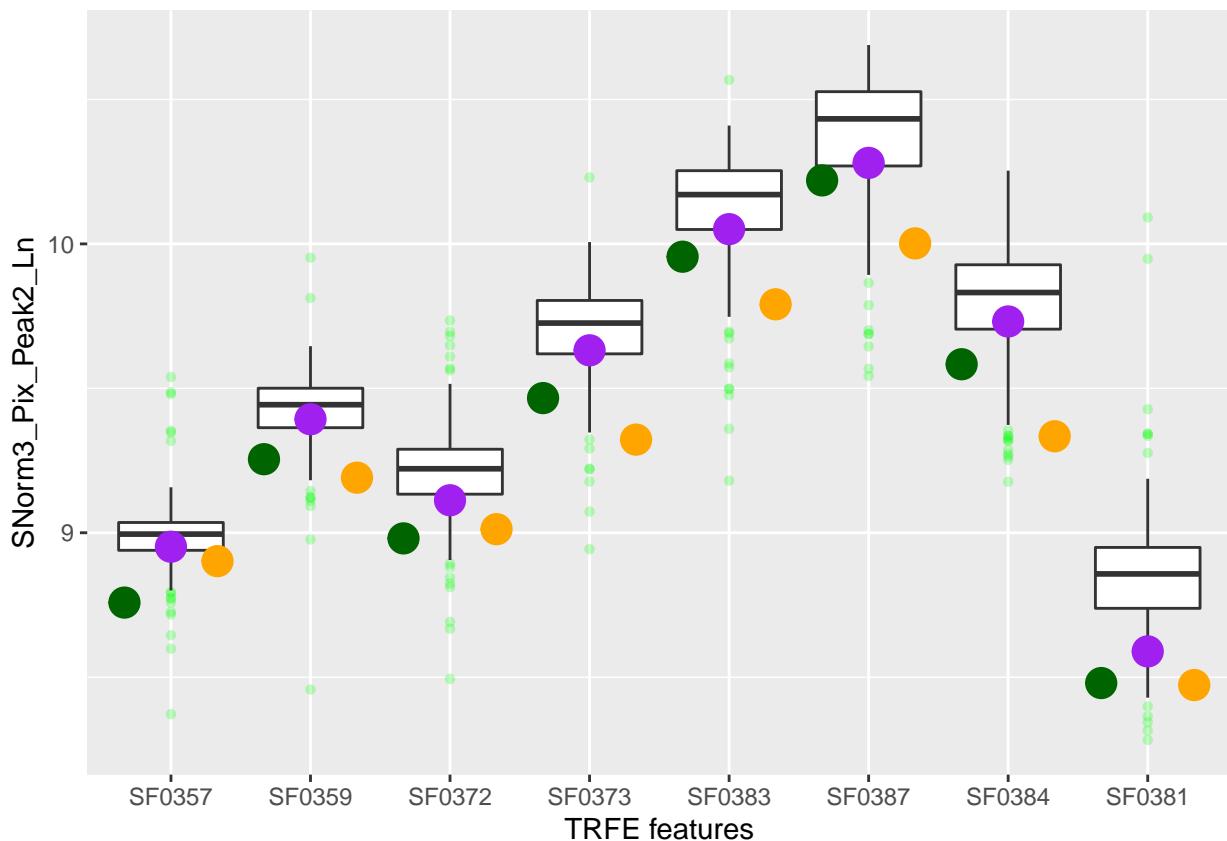


## Replicate 2 : 72288\_Cy5 440\_Cy3 455 Cy5.gel\_sc.gel



## Replicate 3 : 78543\_Cy5 440\_Cy3 445 Cy5.gel\_sc.gel





	SF0357	SF0359	SF0372	SF0373	SF0383	SF0387
50014_Cy5 450_Cy3 455 Cy5	8.758255	9.254740	8.980550	9.466222	9.955700	10.21983
72288_Cy5 440_Cy3 455 Cy5	8.951699	9.392995	9.112507	9.631548	10.051131	10.28042
78543_Cy5 440_Cy3 445 Cy5	8.901775	9.190750	9.012377	9.322508	9.790879	10.00170

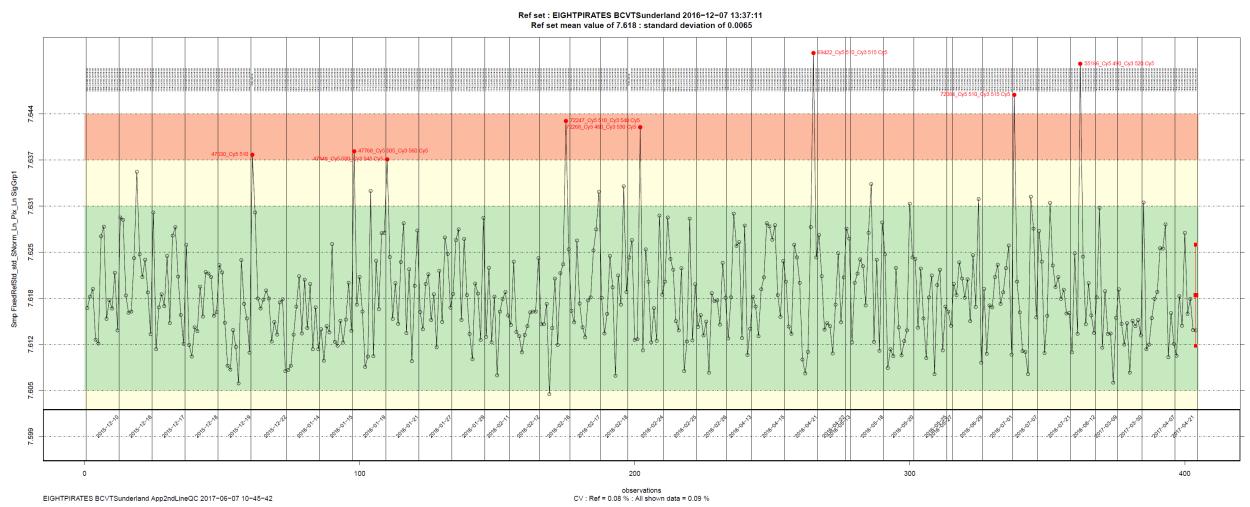
	SF0384	SF0381
50014_Cy5 450_Cy3 455 Cy5	9.583420	8.479699
72288_Cy5 440_Cy3 455 Cy5	9.731512	8.589328
78543_Cy5 440_Cy3 445 Cy5	9.334150	8.472823

## Statistical Process Control

From: An introduction to statistical process control in research proteomics

**Background:** Statistical process control is a well-established and respected method which provides a general purpose, and consistent framework for monitoring and improving the quality of a process. It is routinely used in many industries where the quality of final products is critical and is often required in clinical diagnostic laboratories [1,2]. To date, the methodology has been little utilised in research proteomics. It has been shown to be capable of delivering quantitative QC procedures for qualitative clinical assays [3] making it an ideal methodology to apply to this area of biological research.

*Control charts and possibly image areas from the standard.*



## Audit Logs:

### Run overview

Run #	208
Sample / Study	Human plasma (Lot: SLCC1673)/ NUBZ64100, NUCX182416, NUBZ648698, NUAQ387360, NUFH402412, NUFT865086, NUFR670624, NUFT766262, NUFU715690, NUFT770122, NUFT766280, NUCX210223
Completion (Scan) Date	25/09/2020
Comments	ODD GE strips, biotium dye, sample load 2uL. Pre-mix buffers. Standard IEF with cuploading. Standard 2D with type 2 water. 4% equilibration buffer.

## Labelling

Technician: EA & NH

Sample: 2µL Human Plasma

Solution / reagent	Batch / Lot #	Reference
DIGE labelling buffer	6	LB-RS-06
Tris-HCl pH 8.5	2	LB-RS-02
DMF	STBH7014	
Cy3 (Biotium)	13C1212	
Cy5 (Biotium)	18C0626-1075	
Lysine	4	LB-RS-07
2x DIGE buffer	6	LB-RS-04

## Iso Electric Focusing

Technician: EA & NH

Solution / reagent	Batch / Lot #
<b>1x DIGE buffer</b>	14
<b>Control sample</b>	Human plasma/ SLCC1673
<b>IPG strips</b>	10277023
<b>Reswell Date</b>	22/09/2020
<b>Time strip 1</b>	16:10:00
<b>Time oil added</b>	16:40:00

Equipment	ID #
<b>Reswell tray</b>	3
<b>IPGphor unit</b>	1

Transfer to IPGphor: 23/09/2020 10:54:00 Technician: EA & NH

#	Control ID (Cy3)	Sample ID (Cy5)	Strip ID	IEF Tray #	Run Time
<b>1</b>	Human plasma/ SLCC1673	NUBZ640100	49844	2	23.5
<b>2</b>	Human plasma/ SLCC1674	NUCX182416	49845	2	23.5
<b>3</b>	Human plasma/ SLCC1675	NUBZ648698	49846	2	23.5
<b>4</b>	Human plasma/ SLCC1676	NUAQ387360	49847	2	23.5
<b>5</b>	Human plasma/ SLCC1677	NUFH402412	49848	2	23.5
<b>6</b>	Human plasma/ SLCC1678	NUFT865086	49849	2	23.5
<b>7</b>	Human plasma/ SLCC1679	NUFR670624	49850	2	23.5
<b>8</b>	Human plasma/ SLCC1680	NUFT766262	49851	2	23.5
<b>9</b>	Human plasma/ SLCC1681	NUFU715690	49852	2	23.5
<b>10</b>	Human plasma/ SLCC1682	NUFT770122	49853	2	23.5
<b>11</b>	Human plasma/ SLCC1683	NUFT766280	49854	2	23.5
<b>12</b>	Human plasma/ SLCC1684	NUCX210223	49855	2	23.5

## 2D SDS

---

**Casting (A2DE optimiser) Technician: NH**

Solution / reagent	Batch / Lot #	Weight (g)	Reference
<b>Tris-SDS</b>	24		LB-RS-11
<b>Glycerol</b>	17		LB-RS-09
<b>Acrylamide</b>	07-19-22		WI-LB-001 5.2.1(1)
<b>APS</b>	MKCG5404		WI-LB-001 5.2.1(3a)
<b>TEMED</b>	STBH7073		WI-LB-001 5.2.1(3b)

Equipment	Set
<b>Gel plates:</b>	1
<b>Casting box:</b>	1
<b>Optimiser:</b>	1

---

**Second dimension run properties (2D Tank1) Technician: EA & NH**

Event	Time	W	mA	V
<b>Start</b>	15:32:00	8	170	46
<b>Duration</b>	17h30			
<b>Power up</b>	09:02:00			
<b>Time off</b>	09:18:00	25	190	130
<b>Total time</b>	17h 46m			

---

## Imaging

**Technician: EA & NH**

**Imager: Typhoon 9400**

### Calibration App Log File

The imager was calibrated on 25/09/2020 following protocol P-212 and Calibration App Version 1.01.

Dye channel	PMT
Cy5	450
Cy3	455

### Scanner Driver App

The gels were imaged in pairs using Scanner Driver App version 1.01. The app automatically cropped and rotated the scans. Scans were performed at 100 and 200 micron resolutions. Cy3 and Cy5 channels were imaged simultaneously.

### Whole gel visual review

The gels passed a visual review (under OP-28) before upload to the cloud for processing.

### Scanning App Log File

Opening excel file: A:\Lab\GelRunning\Runs\0208\Run 208.xlsx

Loaded scans:

Strip1: 49844 Strip2: 49845

Strip1: 49846 Strip2: 49847

Strip1: 49848 Strip2: 49849

Strip1: 49850 Strip2: 49851

Strip1: 49852 Strip2: 49853

Strip1: 49854 Strip2: 49855

Starting scan of Strip1: 49844 Strip2: 49845

Finished scan of Strip1: 49844 Strip2: 49845

Scanned images in 00:31:26.9429270:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49844\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49844\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49845\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49845\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49844\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49844\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49845\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49845\_Cy5 560\_Cy3 590 Cy5.gel

File 49844\_Cy5 560\_Cy3 590 Cy3.gel had 77362 saturated pixels of 5304000

File 49845\_Cy5 560\_Cy3 590 Cy3.gel had 107383 saturated pixels of 5304000

Starting scan of Strip1: 49846 Strip2: 49847

Finished scan of Strip1: 49846 Strip2: 49847

Scanned images in 00:31:16.6743397:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49846\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49846\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49847\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49847\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49846\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49846\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49847\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49847\_Cy5 560\_Cy3 590 Cy5.gel

File 49846\_Cy5 560\_Cy3 590 Cy3.gel had 99403 saturated pixels of 5304000

File 49847\_Cy5 560\_Cy3 590 Cy3.gel had 85804 saturated pixels of 5304000

Starting scan of Strip1: 49848 Strip2: 49849

Finished scan of Strip1: 49848 Strip2: 49849

Scanned images in 00:31:19.2494869:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49848\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49848\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49849\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49849\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49848\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49848\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49849\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49849\_Cy5 560\_Cy3 590 Cy5.gel

File 49848\_Cy5 560\_Cy3 590 Cy3.gel had 97777 saturated pixels of 5304000

File 49849\_Cy5 560\_Cy3 590 Cy3.gel had 61913 saturated pixels of 5304000

Starting scan of Strip1: 49850 Strip2: 49851

Finished scan of Strip1: 49850 Strip2: 49851

Scanned images in 00:31:20.2025415:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49850\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49850\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49851\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49851\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49850\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49850\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49851\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49851\_Cy5 560\_Cy3 590 Cy5.gel

File 49850\_Cy5 560\_Cy3 590 Cy3.gel had 97818 saturated pixels of 5304000

File 49851\_Cy5 560\_Cy3 590 Cy3.gel had 69973 saturated pixels of 5304000

Starting scan of Strip1: 49852 Strip2: 49853

Finished scan of Strip1: 49852 Strip2: 49853

Scanned images in 00:31:18.1004212:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49852\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49852\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49853\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49853\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49852\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49852\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49853\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49853\_Cy5 560\_Cy3 590 Cy5.gel

File 49852\_Cy5 560\_Cy3 590 Cy3.gel had 81429 saturated pixels of 5304000

File 49853\_Cy5 560\_Cy3 590 Cy3.gel had 82430 saturated pixels of 5304000

Starting scan of Strip1: 49854 Strip2: 49855

Finished scan of Strip1: 49854 Strip2: 49855

Scanned images in 00:31:19.8435209:

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49854\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49854\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49855\_Cy5 500\_Cy3 530 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\200\49855\_Cy5 500\_Cy3 530 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49854\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49854\_Cy5 560\_Cy3 590 Cy5.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49855\_Cy5 560\_Cy3 590 Cy3.gel

c:\Biosignatures data\2020-09-25-Run 208\9400\49855\_Cy5 560\_Cy3 590 Cy5.gel

File 49854\_Cy5 560\_Cy3 590 Cy3.gel had 89075 saturated pixels of 5304000

File 49855\_Cy5 560\_Cy3 590 Cy3.gel had 71489 saturated pixels of 5304000