

B-CELL LINE EXCHANGE #285

JANUARY 15, 2020

B-cell Lines 569-570

The results for B-cell Line Exchange #285 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. We would like to express our appreciation to **Welsh Blood Service, Pontyclun** for the valuable reference cells examined in our studies. We

would like to also acknowledge and thank the labs performing NGS for sharing their results and encourage other NGS labs to share their findings. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, <https://bioinformatics.bethematchclinical.org/>.

Ter-569. The consensus type for this cell from a donor of South American Indian descent is DRB1*08:02-DQA1*04:01-DQB1*04:02-DPA1*01:03-DPB1*03:01-DPB1*04:02-A*31:01-B*15:01-B*15:20-C*01:02-C*03:04. One likely association present in this cell is B*15:01-C*01:02-DRB1*08:02-DQB1*04:02, with respective HF=0.00465 in Hispanics. The other likely association present may then be B*15:20-C*03:04-DRB1*08:02-DQB1*04:02. The association of B*15:20-C*03:04 was observed in the workshop cell IHW9359.

The cell is OLGA, also known as OLL, as correctly identified by Chen. It is the reference cell for B*15:20 and B*15:01:01:01. It was previously examined in the Workshops as IHW9071 and in the Exchange as Ter 346 (2004), TER 175 (1996), Ext 551 (2012), Ext 363 (2006), and Ext 215 (2002). In this present study, B*15:20 and B*15:01 were each reported by 100% of labs, with 6 labs assigning B*15:01:01. Good agreement (>90%) was also achieved for all remaining class I and class II loci. Among labs reporting by high resolution, 9 assigned DRB1*08:02:01 and 5 assigned C*01:02:30:01.

Ter-570. The consensus type for this cell from a Caucasian donor was DRB1*01:01-DRB1*07:01-DRB4*01:03:01N-DQA1*01:01-DQA1*02:01-DQB1*03:03-DQB1*05:01-DPA1*01:03-DPB1*04:01-A*01:01-A*02:01-B*15:17-B*57:01-C*06:02--C*07:01. One likely association present in this cell is A*02:01-B*57:01-C*06:02-DRB1*07:01-DQB1*03:03, observed in Caucasians, with HF = 0.00843. The other likely association present may then be A*01:01-B*15:17-C*07:01-DRB1*01:01-DQB1*05:01. The B*15:17-C*07:01 association present in this cell is observed in Caucasians, with HF = 0.00267.

We congratulate Chen for correctly identifying this cell as HC15956, the reference cell for A*01:01:38L. Also known as 37935, this cell was previously examined in the Exchange for class II as Ter 520 (2015) and for class I as extracts 574 (2013) and 445 (2009). In this present retyping, A*01:01:38L was reported by 11 labs, 8 labs assigned A*01:01, and 1 lab assigned A*01:01P. Good agreement (>90%) was also achieved across all remaining loci, except DRB4. This locus was not graded for low resolution, as the consensus for DRB4*01N was only 50%.

NEXT MAILING DATE: March 4, 2020

Arlene Locke, David Gjertson, Qiheng Zhang, and Elaine F. Reed

Table 3a: Individual laboratory results for B-cell #569 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*08	*08	NT	NT	*04	*04	*04	*04	*01	*01	*03	*04	SSP SSO	
725	*08				*04		*04						SSP SSO	
731	*08				*04		*04			*01			SSP SSO SBT	
735	*08	*08	NP	NP	*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSP SSO SBT	
747	*08				*04		*04		*01		*03	*04	SSP SSO NGS	
771	*08				*04		*04						SSP SSO	
774	*08				*04		*04				*03	*04(DP402)	SSP SSO	
792	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSP SSO SBT	
793	*08				*04		*04				*03	*04(DP402)	SSP	
2400	*08		NP	NP	*04		*04		NT	NT	*03	*04	SSO NGS	
2847	*08												SSO	
3519	*08				*04		*04		*01		*03	*04(DP402)	SSP NGS RT-PCR	
3632	*08				*04		*04		*01		*03	*04		
3753	*08	*08	NP	NP	*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO	
3966	NT												SSP SSO	
4079	*08				*04		*04		*01		*03	*04	SSP SSO NGS	
4251	*08	*08			*04	*04	*04	*04	*01	*01	*03	*04(DP402)	SSO NGS	
4492	*08				*04		*04		*01		*03	*04(DP402)	SSP SSO NGS	
5130	*08	*08			*04	*04	*04	*04			*03	*04	SSO NGS	
5214	*08				*04		*04		*01		*03	*04(DP402)	SSO RT-PCR	
5219	*08	*08			*04	*04	*04	*04			*03	*04(DP402)	SSO NGS	
5451	*08				*04		*04						SSO SBT	
5462	*08		NP		*04		*04		*01		NT	NT	SSO RT-PCR	
5488	NT												SSP SSO SBT NGS	
5642	*08						*04						SSP	
6649	*08												SSO	
8001	*08				*04		*04						SSP SSO	
8029	*08	*08			*04	*04	*04	*04					SSO	
8043	*08				*04		*04						SSP SSO	
8068	*08	*08			*04	*04	*04	*04					SSO	

Table 3b: Individual laboratory results for B-cell #569 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSO SBT NGS	
278	*08:02	*08:02	NT	NT	*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSP SSO	
731	*08:02:01						*04:02						SSP SSO SBT	
735	*08:02	*08:02			*04:01	*04:01	*04:02P	*04:02P	*01:03P	*01:03P	*03:01	*04:02	SSP SSO SBT	
747	*08:02:01				*04:01:01		*04:02:01		*01:03:01:03	*01:03:01	*03:01:01	*04:02:01	SSP SSO NGS	DPB1*463:01 B*15:228 DPB1*351:01
762	*08:02:01				*04:01:01		*04:02:01		*01:03:01:03	*01:03:01:05	*03:01:01	*04:02:01:01	NGS	DPB1*351:01 DPB1*463:01:01
771	*08:02						*04:02						SSP SSO	
774	*08:02				*04:01		*04:02				*03:01	*04:02	SSP SSO	DQB1*04:12 DQB1*04:11 DQB1*04:13 DQB1*04:18 DQB1*04:19 DQB1*04:20 DQB1*04:21 DQB1*04:22 DQB1*04:23
792	*08:02	*08:02					*04:02	*04:02			*03:01	*04:02	SSP SSO SBT	DPB1*463:01 DPB1*351:01
793					*04:01						*03:01	*04:02	SSP	
2344	*08:02:01	*08:02:01					*04:02:01	*04:02:01			*03:01:01G	*04:02:01G	NGS	
2400	*08:02				*04:01		*04:02				*03:01	*04:02	SSO NGS	
3135	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3224	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	NGS	
3511	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSP SSO	
3519	*08:02				*04:01		*04:02				*03:01P	*04:02P	SSP NGS RT-PCR	DPB1*351:01 DPB1*463:01
3632	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02		
3966													SSP SSO	
4079	*08:02				*04:01		*04:02		*01:03		*03:01	*04:02	SSP SSO NGS	DQB1*04:11 DQB1*04:13 DQB1*04:18 DQB1*04:19 DQB1*04:21 DQB1*04:20 DQB1*04:22 DQB1*04:23
4251	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03:01G	*03:01:01G	*04:02:01G	SSO NGS	
4337	*08:02	*08:02					*04:02	*04:02			*03:01	*04:02	SSP SBT NGS	
4492	*08:02:01				*04:01:01		*04:02		*01:03:01		*03:01:01	*04:02:01	SSP SSO NGS	DPB1*351:01 DPB1*463:01
5130	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02			*03:01	*04:02	SSO NGS	DPB1*351:01 DPB1*463:01
5133	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01:01	*04:02:01	NGS	DPB1*463:01:01 DPA1*01:14 DPB1*351:01
5219	*08:02:01	*08:02:01					*04:02:01	*04:02:01			*03:01:01	*04:02:01	SSO NGS	
5451	*08:02:01												SSO SBT	
5488	*08:02:01				*04:01:01		*04:02:01		*01:03:01		*03:01:01G	*04:02:01G	SSP SSO SBT NGS	
5642	*08:02						*04:02						SSP	
8001	*08:02						*04:02				*03:01:01G	*04:02	SSP SSO	
8043	*08:02				*04:01		*04:02						SSP SSO	
8086	*08:02	*08:02			*04:01	*04:01	*04:02	*04:02	*01:03	*01:03	*03:01	*04:02	SSO SBT	

Table 4: Individual laboratory results for B-cell #569 - Class I

Center	Low resolution						High resolution						METHOD	Other Alleles
	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO SBT NGS	
278	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO	
725	*31		*15		*01	*03							SSP SSO	
731	*31		*15	*35	*01	*03							SSP SSO SBT	
735	*31	*31	*15	*15	*01	*03	*31:01P	*31:01P	*15:01	*15:20	*01:02P	*03:04P	SSP SSO SBT	
747	*31		*15	*15	*01	*03	*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	SSP SSO NGS	
774	*31		*15	*15	*01	*03				*15:20			SSP SSO	
792	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO SBT	
793	*31		*15		*01	*03							SSP	
2344							*31:01:02	*31:01:02	*15:01:01	*15:20	*01:02:30:01	*03:04:01	NGS	
2400	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSO NGS	
2847	*31		*15	*15	*01	*03							SSO	
3135							*31:01		*15:01	*15:20	*01:02	*03:04		
3224							*31:01		*15:01	*15:20	*01:02	*03:04	NGS	
3511							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SSO	
3519	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP NGS RT-PCR	
3753	*31	*31	*15	*15	*01	*03							SSO	
4079	*31		*15	*15	*01	*03	*31:01		*15:01	*15:20	*01:02	*03:04	SSP SSO NGS	
4251	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO NGS	
4337							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSP SBT NGS	
4492	*31		*15		*01	*03	*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	SSP SSO NGS	
5130	*31	*31	*15	*15	*01	*03	*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO NGS	
5133							*31:01:02:01		*15:01:01:01	*15:20	*01:02:30:01	*03:04:01	NGS	
5214	*31		*15(B62)		*01	*03(Cw10)							SSO RT-PCR	
5219	*31	*31	*15	*15	*01	*03	*31:01:02	*31:01:13	*15:01:01	*15:20	*01:02:30:01	*03:04:01	SSO NGS	
5451													SSO SBT	
5462	*31		*15	*15	*01	*03							SSO RT-PCR	
5488							*31:01:02		*15:01:01	*15:20	*01:02	*03:04:01	SSP SSO SBT	
8029	*31	*31	*15	*15	*01	*03							NGS	
8068	*31	*31	*15	*15	*01	*03							SSO	
8086							*31:01	*31:01	*15:01	*15:20	*01:02	*03:04	SSO SBT	

Table 5a: Individual laboratory results for B-cell #570 - Class II

Low resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
278	*01	*07	4*01	NT	*01	*02	*03	*05	*01	*01	*04	*04	SSP SSO	
725	*01	*07	4*NULL		*01	*02	*03	*05					SSP SSO	
731	*01	*07			*01	*02	*03	*05					SSP SSO SBT	
735	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
747	*01	*07	4*PRESENT		*01	*02	*03	*05	*01		*04		SSP SSO NGS	
771	*01	*07			*01	*02	*03	*05					SSP SSO	
774	*01	*07	4*01		*01	*02	*03	*05			*04(DP401)		SSP SSO	
792	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSP SSO SBT	
793	*01	*07	4*01N		*01	*02	*03	*05			*04(DP401)		SSP	
2400	*01	*07	4*01N	NP	*01	*02	*03	*05	NT	NT	*04		SSO NGS	
2847	*01	*07											SSO	
3519	*01	*07			*01	*02	*03	*05	*01		*04(DP401)		SSP NGS RT-PCR	
3632	*01	*07	4*01		*01	*02	*03	*05	*01		*04			
3753	*01	*07	NP	4*01N	*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSO	
3966	NT												SSP SSO	
4079	*01	*07	4*01		*01	*02	*03	*05	*01		*04		SSP SSO NGS	
4251	*01	*07	4*01N		*01	*02	*03	*05	*01	*01	*04(DP401)	*04(DP401)	SSO NGS	
4492	*01	*07	4*NULL		*01	*02	*03	*05	*01		*04(DP401)		SSP SSO NGS	
5130	*01	*07	4*01		*01	*02	*03	*05			*04	*04	SSO NGS	
5214	*01	*07	4*01N		*01	*02	*03(DQ9)	*05	*01		*04(DP401)		SSO RT-PCR	
5219	*01	*07			*01	*02	*03	*05			*04(DP401)	*04(DP401)	SSO NGS	
5451	*01	*07	4*01N		*01	*02	*03	*05					SSO SBT	
5462	*01	*07	4*01N		*01	*02	*03	*05	*01		NT	NT	SSO RT-PCR	
5488	NT						*03	*05					SSP SSO SBT NGS	
5642	*01	*07	4*PRESENT				*03	*05					SSP	
6649	*01	*07											SSO	
8001	*01	*07	4*01N		*01	*02	*03	*05					SSP SSO	
8029	*01	*07			*01	*02	*03	*05					SSO	
8043	*01	*07			*01	*02	*03	*05					SSP SSO	
8068	*01	*07			*01	*02	*03	*05					SSO	

Table 5b: Individual laboratory results for B-cell #570 - Class II

Center	High resolution												METHOD	Other Alleles
	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1			
230	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO SBT NGS	
278	*01:01	*07:01	4*01:03N	NT	*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSP SSO	
731	*01:01	*07:01:01					*03:03	*05:01					SSP SSO SBT	
735	*01:01P	*07:01P	4*01:03N		*01:01P	*02:01	*03:03P	*05:01P	*01:03P	*01:03P	*04:01P	*04:01P	SSP SSO SBT	
747	*01:01:01	*07:01:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02:01	*05:01:01:03	*01:03:01:02		*04:01:01		SSP SSO NGS	
762	*01:01:01	*07:01:01:02	4*01:03:01:02N		*01:01:01:01	*02:01:01	*03:03:02	*05:01:01:03	*01:03:01:02		*04:01:01		NGS	
771	*01:01	*07:01					*03:03	*05:01					SSP SSO	
														DRB1*01:50 DRB1*01:62N DRB1*01:64 DRB1*01:65 DRB1*01:67 DRB1*07:31 DRB1*07:33 DRB1*07:35
774	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01			*04:01		SSP SSO	
792	*01:01	*07:01					*03:03	*05:01			*04:01	*04:01	SSP SSO SBT	
793			4*01:03N		*01:01	*02:01					*04:01		SSP	
2344	*01:01:01	*07:01:01					*03:03:02	*05:01:01			*04:01:01	*04:01:01	NGS	
2400	*01:01	*07:01	4*01:03:01N		*01:01	*02:01	*03:03	*05:01			*04:01		SSO NGS	
3135	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01			DQA1*01:04 DQA1*01:05
3224	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01		NGS	
3511	*01:01	*07:01	4*01:03:01N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSP SSO	
3519	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01			*04:01		SSP NGS RT-PC	
3632	*01:01	*07:01	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01			
3966	*01:01	*07:04	4*01:03:01:02N				*03:03	*05:01					SSP SSO	
4079	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01	*01:03		*04:01		SSP SSO NGS	DRB1*01:65
4251	*01:01	*07:01:01G	4*01:03N		*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO NGS	
4337	*01:01	*07:01					*03:03	*05:01			*04:01	*04:01	SSP SBT NGS	
														DRB1*01:100 DRB1*07:79 DRB1*07:93
4492	*01:01	*07:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02:01	*05:01:01	*01:03:01:02		*04:01:01		SSP SSO NGS	
5130	*01:01	*07:01	4*01:03:01:02N		*01:01	*02:01	*03:03	*05:01			*04:01	*04:01	SSO NGS	

Table 5b: Individual laboratory results for B-cell #570 - Class II

High resolution														
Center	DRB1		DRB3/4/5		DQA1		DQB1		DPA1		DPB1		METHOD	Other Alleles
5133	*01:01:01	*07:01:01	4*01:03:01:02N		*01:01:01	*02:01:01	*03:03:02	*05:01:01	*01:03:01		*04:01:01		NGS	DRB1*01:100 DRB1*01:01:32 DQB1*05:183 DQB1*05:01:24 DQB1*05:01:26 DQB1*05:01:33 DPA1*01:14 DRB1*07:93 DRB1*01:01:33 DRB1*07:79 DQB1*05:01:28 DQB1*05:01:29 DQB1*05:193 DQB1*05:194 DQB1*05:195
5219	*01:01:01	*07:01:01					*03:03:02	*05:01:01			*04:01:01	*04:01:01	SSO NGS	
5451	*01:01:01	*07:01:01											SSO SBT	
5488	*01:01:01	*07:01:01	4*01:03:01:02N		*01:01	*02:01			*01:03:01		*04:01:01		SSP SSO SBT NGS	
5642	*01:01	*07:01					*03:03	*05:01					SSP	
8001	*01:01	*07:01	4*01:03N				*03:03	*05:01			*04:01		SSP SSO	
8043	*01:01	*07:01			*01:01	*02:01	*03:03	*05:01					SSP SSO	
8086	*01:01	*07:01			*01:01	*02:01	*03:03	*05:01	*01:03	*01:03	*04:01	*04:01	SSO SBT	

Table 6: Individual laboratory results for B-cell #570 - Class I

Low resolution							High resolution						METHOD	Other Alleles
Center	HLA-A		HLA-B		HLA-C		HLA-A		HLA-B		HLA-C			
230							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSO SBT NGS	
278	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
725	*01	*02	*15	*57	*06	*07							SSP SSO	
731	*01	*02	*15	*57	*06	*07							SSP SSO SBT	
735	*01	*02	*15	*57	*06	*07	*01:01P	*02:01P	*15:17	*57:01P	*06:02P	*07:01P	SSP SSO SBT	
747	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01:01	*15:17:01:01	*57:01:01:01	*06:02:01:01	*07:01:02	SSP SSO NGS	
774	*01	*02	*15	*57	*06	*07			*15:17				SSP SSO	B*15:268
792	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO SBT	A*02:01:01:02L
793	*01	*02	*15	*57	*06	*07							SSP	
2344							*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	NGS	
2400	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
2847	*01	*02	*15	*57	*06	*07							SSO	
3135							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01:01G		
3224							*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	NGS	
3511							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO	
3519	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP NGS RT-PCR	
3753	*01	*02	*15	*57	*06	*07							SSO	
3966	*01	*02	*15	*57	*06	*07							SSP SSO	
4079	*01	*02	*15	*57	*06	*07	*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SSO NGS	
4251	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
4337							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSP SBT NGS	
4492	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01	*15:17:01	*57:01:01:01	*06:02:01:01	*07:01:02	SSP SSO NGS	
5130	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01	*15:17	*57:01	*06:02	*07:01	SSO NGS	
5133							*01:01:38L	*02:01:01	*15:17:01:01	*57:01:01:01	*06:02:01:01	*07:01:02	NGS	
5214	*01	*02	*15(B63)	*57	*06	*07							SSO RT-PCR	
5219	*01	*02	*15	*57	*06	*07	*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	SSO NGS	
5462	*01	*02	*15	*57	*06	*07							SSO RT-PCR	
													SSP SSO SBT	
5488							*01:01:38L	*02:01:01	*15:17:01	*57:01:01	*06:02:01	*07:01:02	NGS	
8029	*01	*02	*15	*57	*06	*07							SSO	
8068	*01	*02	*15	*57	*06	*07							SSO	
8086							*01:01	*02:01	*15:17	*57:01	*06:02	*07:01	SSO SBT	