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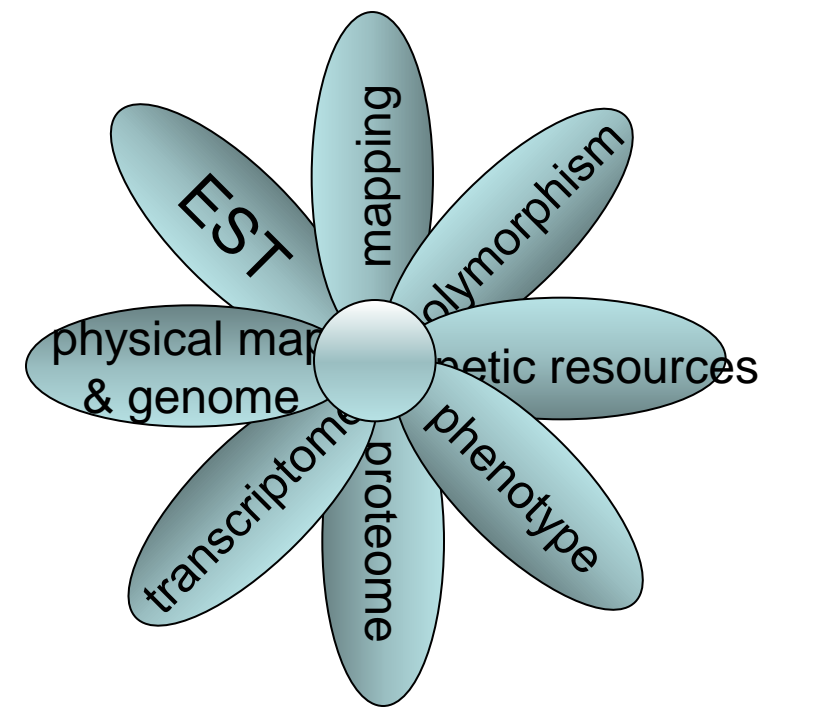


Abstract:

URGI is an INRA bioinformatics unit dedicated to plants and pest genomics. Created in 2002, one of its missions is to develop and to maintain a genomic and genetic information system called GnpIS, for INRA plants of agronomical interest and their bioagressors.

GnpIS is composed of multiples modules which contain wheat data:

- GnpGenome with the physical mapping of the 3B chromosome and some genomic annotation data using GMOD GBrowse viewer
- GnpMap with genetic mapping data: ITMI, ARE, RER, Neighbour, ReCs, SOds, WuMa, RLaC, SupBW, DEL, Ditelo, NulliTetra maps
- GnpSNP with polymorphism data
- GnpSeq with EST data
- SIREgall with genetic resources data



This poster will present the links between all the wheat data inside GnpIS and describe more precisely the new 3B physical map viewer with contigs, markers, BACs and deletion bins data.

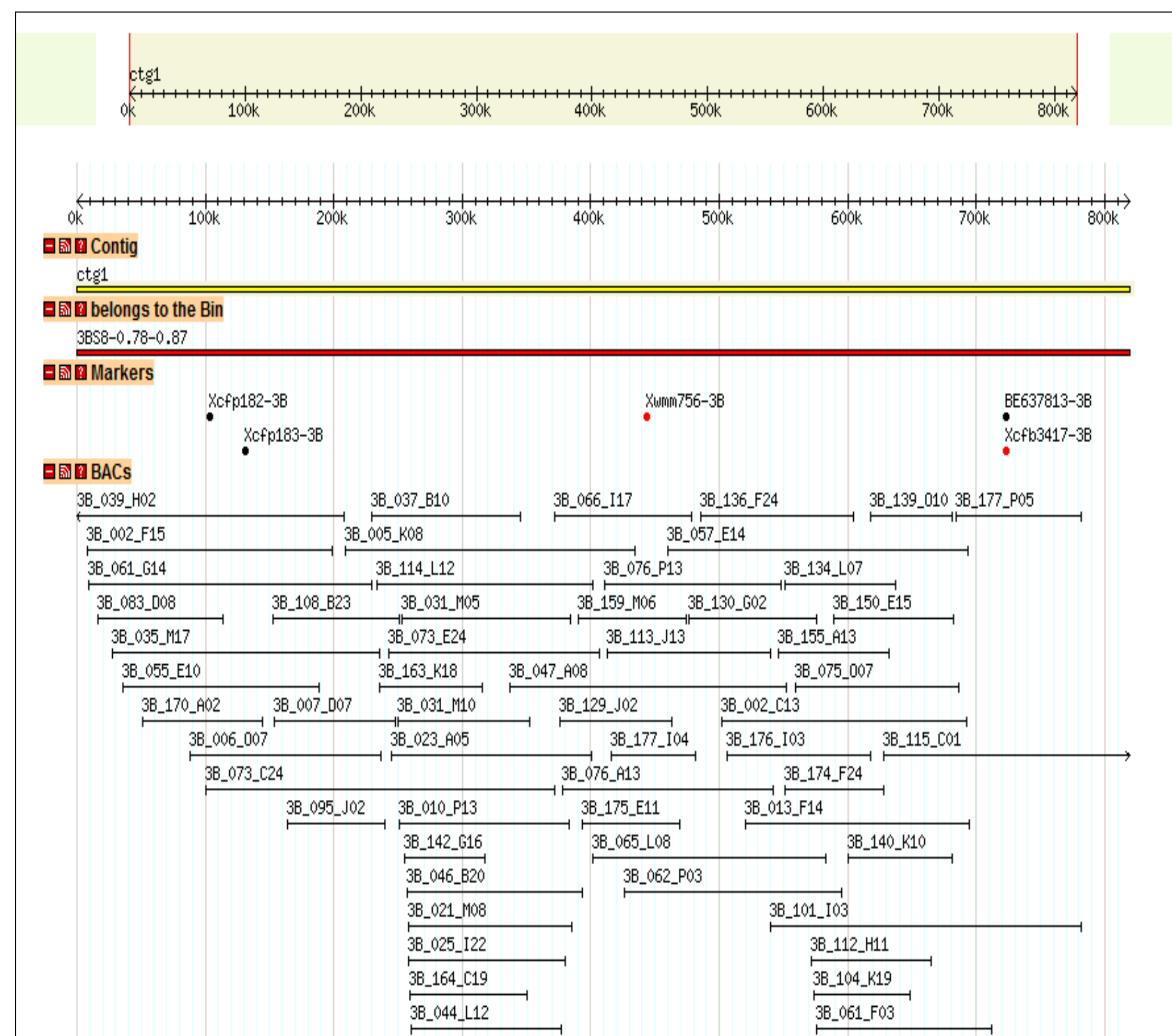
GnpGenome <http://urgi.versailles.inra.fr/data/gnpGenome/run.php>



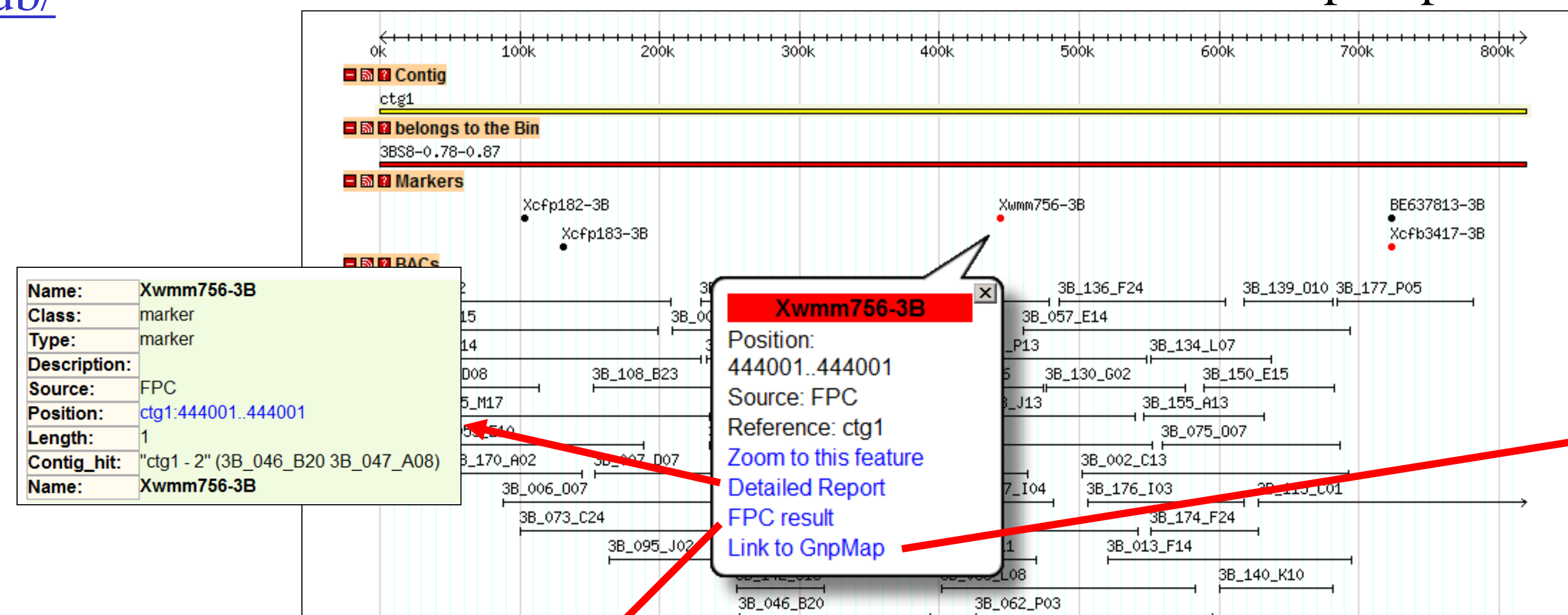
Wheat 3B FPC physical map

http://urgi.versailles.inra.fr/cgi-bin/gbrowse/wheat_FPC_pub/

Contig
Deletion bin
Markers
BACs



Markers in red have additional details in GnpMap



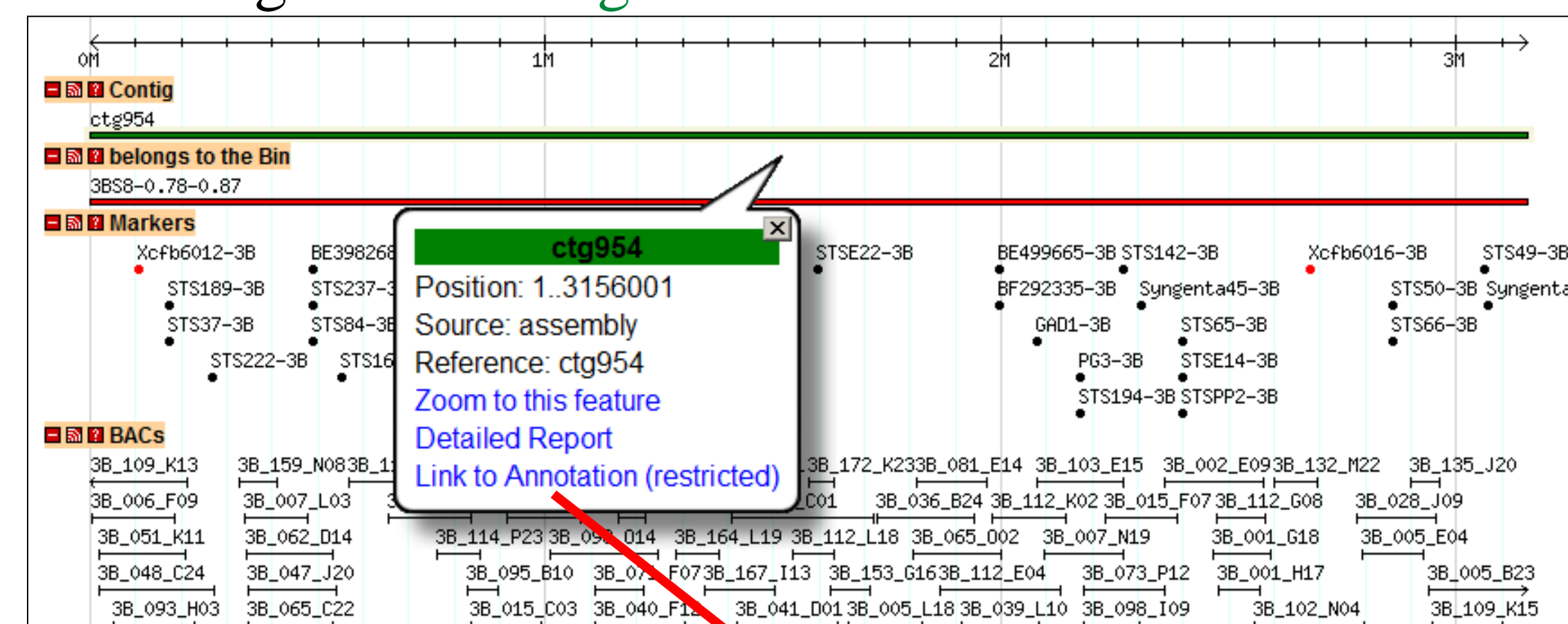
Locus details			
Locus name:	Xwmm756-3B		
Marker name:	Xwmm756		
Marker type:	-		
Gene function (manual annotation):	-		
Assignments			
Assignments number:	2		
Map name	Reliability (source map name)	Linkage group	Bin Distance
Neighbour_380427	framework	3B	5.5
WuMa_380305	non_framework	3B	5.7

GnpMap

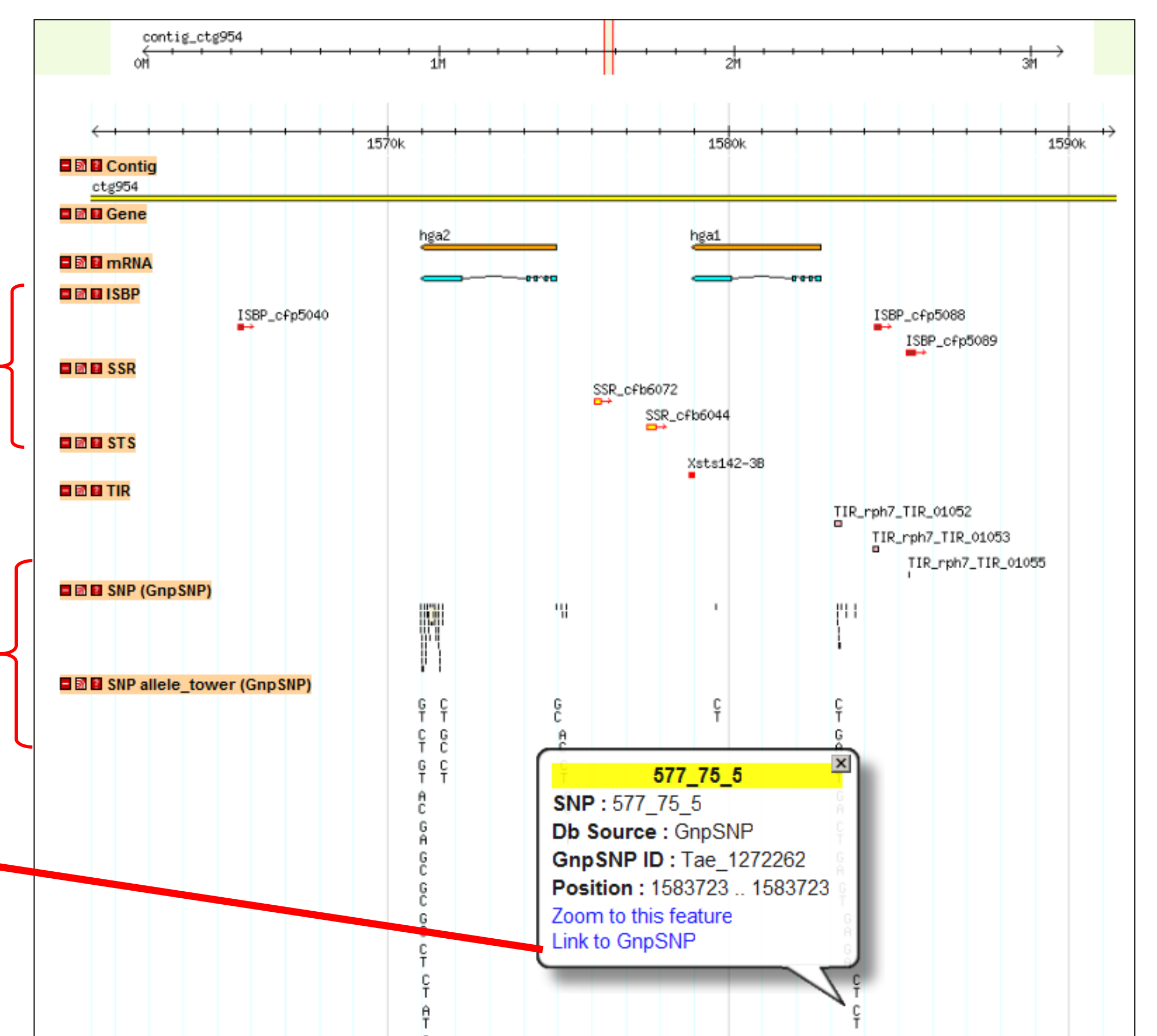
<http://urgi.versailles.inra.fr/GnpMap/mapping/welcome.do>

- ✓ 16 wheat genetic maps : ARE, AXO, CiCs, ITMI, RER, Neighbour, RLaC, ReCs, SOds, SumStoa, SupBW, TXO, TaVirtualPop, WuMa...
- ✓ 3 wheat cytogenetic maps: DEL, Ditelo, NulliTetra.
- ✓ more than 10 000 wheat markers
- ✓ more than 500 wheat QTLs

Contig or BAC in green are annotated



Wheat 3B BAC annotation (restricted access)



Identification	
Accession number:	1232
Accession name:	BARBU DU FINISTERE
Synonyms:	ECPIOR QV3 1648 II
Subspecies:	Triticum aestivum aestivum
Pedigree:	variete locale
Biological status:	Traditional cultivar/landrace
Comment:	-
Origin	
Geographical origin:	France
Holding institution:	Unité Mote de Recherche Amélioration et Santé des Plantes, INRA
Evaluation data	
Days to heading (Counted as days from sowing to 50% of panicles fully emerged)	156
Scale of days to heading	9
Wheat awnness	7
Plant height (cm)	145
Scale of plant height	9
Scale of 1000 kernels weight	3
Susceptibility to Puccinia striiformis f. sp. hordei (Yellow rust) - Year 2000	1
Susceptibility to Puccinia recondita (Leaf rust) - Year 2000	4
Growth class	Hiver - Winter
Chromosome number:	6X
Distribution	
Presence status:	Maintained
Available:	Yes, with restrictions
Distribution(s):	Unité Mote de Recherche Amélioration et Santé des Plantes, INRA
Collections	
Part of:	WHEAT_INRA_COLLECTION WHEAT_LOIRE_COLLECTION WHEAT_NATIONAL_COLLECTION

SIREgall

<http://urgi.versailles.inra.fr/siregal/siregal/welcome.do>

Variation details	
Name:	INRA_CF_ASP_75_BT006
Type:	SNP
Patterns:	GC
Position on ref. seq.:	75
5' flanking on ref. seq.:	147
3' flanking on ref. seq.:	147
Length:	1
Line:	BARBU DU FINISTERE
Variation complements	
Confidence value:	A
Primers:	Hpa1un5F1
Experiment:	INRA_CF_ASP-53
Genemarker name:	hg1
Ref. Sequence:	consensus_hg1_inidmsSTARTcodon
SNP:	Taa_1272262
Project:	EXGESEBLE

GnpSNP

<http://urgi.versailles.inra.fr/GnpSNP/snp/welcome.do>

Related publication:

A physical map of the 1-gigabase bread wheat chromosome 3B
Paux E, Sourdille P, Salse J, Saintenac C, Choulet F, Leroy P, Korol A, Michalak M, Kianian S, Spielmeier W, Lagudah E, Somers D, Kilian A, Alaux M, Vautrin S, Bergès H, Eversole K, Appels R, Safar J, Simkova H, Dolezel J, Bernard M, Feuillet C.
Science. 2008 Oct 3;322(5898):101-4.

Acknowledgements:

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