PorcineSNP60 v2 BeadChip

Representing an on-going commitment to the porcine genomic market.

Strong market demand has depleted the bead pool for the original PorcineSNP60 BeadChip, prompting Illumina to manufacture a new version of the product. To ensure the transition between versions is as seamless as possible, we've manufactured the new BeadChip with the same high data quality content found in the original.

What are the principal differences between the two PorcineSNP60 BeadChips?

There is a 98.4% overlap in SNP content between the v1 and v2 BeadChips*. The original v1 BeadChip was in a 12-sample format. The new PorcineSNP60 v2 BeadChip is in a 24-sample format, enabling higher throughput and lower overhead costs when performing studies.

Moving from a 12- to a 24-sample format decreased the amount of room available for Add-On Content. The 24-sample v2 BeadChip can accomodate 90,000 beadtypes on the substrate, i.e. room for 25,000 beadtypes of Add-On Content, on top of 65,000 beadtypes of base content.

Is the PorcineSNP60 v2 BeadChip pricing the same as the old version?

Yes, pricing remains the same. As with the v1 BeadChip, the cost for Add-On Content is added to the base price of the array. Please contact your local Account Manager or www.illumina.com to find out more about Add-On Content pricing.

Are there new catalog numbers for the v2?

Yes. The new catalog numbers for the PorcineSNP60 v2 and PorcineSNP60 v2 with Add-On Content (PorcineSNP60 v2+) BeadChips are listed below. The v1 catalog numbers were removed from MyIllumina and Illumina.com in March 2012, when we stopped manufacturing this version.

Product	No. of Samples	Catalog Number
Infinium PorcineSNP60 v2 BeadChip	48	WG-410-2001
	288	WG-410-2002
	1,152	WG-410-2003
Infinium PorcineSNP60 v2+ BeadChip (with Add-On Content)	48	WG-410-2005
	288	WG-410-2006
	1,152	WG-410-2007

When did the PorcineSNP60 v2 BeadChip begin shipping?

The PorcineSNP60 v2 BeadChip began shipping in March 2012.

Will the v1 product files (cluster file and manifest) work for the v2 BeadChip?

No, the v1 files will not work with the v2 BeadChips and vice versa. A new cluster file (.egt), manifest (.bpm), marker list (.txt), as well as product definition (.xml) files, will be available for the new v2 BeadChip.

Does Illumina recommend using the standard cluster file with the PorcineSNP60 v2 BeadChip?

No, the cluster file provided should only be used for reference. Customers are encouraged to self cluster their PorcineSNP60 v2 BeadChip data.

*61,177 of the 62,163 SNPs on the original PorcineSNP60 BeadChip are on the PorcineSNP60 v2 BeadChip.

How do I merge data from the two different BeadChip versions?

After clustering the data from each version independently in GenomeStudio® data analysis software, the genotype calls can be exported and merged. This can be accomplished with open-source analysis applications such as PLINK (http://pngu.mgh.harvard.edu/~purcell/plink/), enabling data sets to be analyzed as one.

Will it be possible to cluster and merge v1 and v2 data sets within GenomeStudio software?

No. Projects that span the two BeadChip versions will have to be clustered outside of the GenomeStudio software.

Will Illumina manufacture new versions of the PorcineSNP60 BeadChip at some point in the future?

Illumina is building the bead pool for the v2 BeadChip to meet current and forecasted market demands. Should market demand warrant it, the manufacture of additional versions may be necessary.

What if my loci of interest are not represented on the v2 BeadChip?

The base content of the PorcineSNP60 v2 BeadChip was created using the v1 specifications. We've tried to provide as close to 100% content overlap between the versions as possible. In the unlikely event that there are loci of interest that are not represented on the v2 BeadChip, customers can cost-effectively add them onto the BeadChip with Add-On Content.

How much Add-On Content will be allowed on the v2 BeadChip?

The PorcineSNP60 v2 BeadChip can accomodate 90,000 beadtypes on the substrate, i.e. room for 25,000 beadtypes of Add-On Content, on top of 65,000 beadtypes of base content.

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