

PEPperCHIP® Transglutaminase Peptide Microarray

Product: PEPperCHIP® Peptide Microarray

Organism: Homo sapiens (Human)

Microarray Content: Transglutaminases (Protein-glutamine gamma-glutamyltransferases) including coeliac disease and gluten sensitivity-associated autoantigens

Protein	Database Entry	Protein Length
Factor XIII A (Coagulation factor XIII, A-subunit)	gb AAH27963.1 	732 aa
Tissue transglutaminase (TG2)	ref NP_004604.2 	687 aa
Keratinocyte transglutaminase (TG1)	ref NP_000350.1 	817 aa
Epidermal transglutaminase (TG3)	ref NP_003236.3 	693 aa
Neuronal transglutaminase (TG6)	gb AAQ10751.1 	706 aa
Prostata transglutaminase (TG4)	gb AAH07003.1 	684 aa

Sequence Compilation: The protein sequences were elongated by neutral GSGSGSG linkers to avoid truncated peptides. The elongated protein sequences were translated into 15 aa peptides printed in duplicate with a max. peptide-peptide overlap of 14 aa for full epitope coverage.

- peptide length/overlap: 15 aa / 14 aa
- number of peptides/spots: 4,354 / 8,708

Microarray Layout:



Each PEPperCHIP® Peptide Microarray is marked with microarray ID on the backside of the glass slide. The glass slide is accurately placed in an incubation tray with the microarray surface up if the microarray ID appears in the **top right corner** in a **mirror view** manner.

PEPperCHIP® Transglutaminase Peptide Microarray contains a single peptide array and is compatible with a 3/1-well PEPperCHIP® Incubation Tray.

Each PEPperCHIP® Transglutaminase Peptide Microarray further contains Polio, c-Myc and HA control peptides (42, 42 and 48 spots each control).

Microarray Layout Files: Excel: Peptide_Map_PEPperCHIP_Transglutaminase_Microarray.xlsx

GenePix® Pro: Transglutaminase_Microarray.gal

PepSlide® Analyzer: Transglutaminase_Microarray.psf