

Table S4 Yan binding is dynamic across the segmentation network. Gene expression profiles of Yan putative targets available from the Berkley Drosophila Genome Project {Tomancak, 2007 #122;Tomancak, 2002 #123}.

Gene	Stage bound by Yan	Classification of Yan binding	Dynamic CHIP pattern?	Gene expression in early embryogenesis	Gene expression in late embryogenesis
bcd	Stg5-7 and Stg11	multiple->dense	yes	maternal/foregut and ant endoderm stg4-6	no staining detected
osk	Stg5-7	Dense	yes	maternal/pole cell rapidly degraded stg4-6	no staining detected
hb	Stg5-7 and Stg11	dense	yes	maternal/foregut, hindgut, vent ectoderm, dors ectoderm, procephalic ectoderm, mesectoderm stg4-6	central brain glia, neuroblasts of vent nervous sys, procephalic neuroblasts, vent nerve cord, brain, lateral cord glia
pum	Stg5-7 and Stg11	multiple	yes	-	-
hkb	Stg5-7 and Stg11	dense->multiple	yes	foregut, ant endoderm, post endoderm, procephalic ectoderm	central brain glia, vent nervous sys, brain, salivary gland body
til	Stg5-7 and Stg11	dense->multiple	yes	-	-
ems	Stg5-7 and	single->dense	yes	-	-

	Stg11				
btd	Stg5-7 and Stg11	multiple	yes	head epidermis, clypeolabrum, dors ectoderm, cellular blastoderm, hypopharynx, central brain, procephalic ectoderm	vent epidermis, procephalic, neuroblasts, head epidermis, brain, vent nerve cord, pars intercerebralis
Kr	Stg5-7 and Stg11	dense	yes	visual, hindgut, vent ectoderm, procephalic ectoderm, dors ectoderm, post endoderm	Malpighian tubule, larval eye, brain, stomatogastric nervous sys, vent nerve cord
kni	Stg5-7 and Stg11	dense->multiple	yes	-	-
gt	stg5-7	dense	yes	maternal/mesoderm, dors ectoderm, ectoderm, cellular blastoderm, vent e ctoderm, procephalic ectoderm stg 4-6	procrystal cell plasmacytes, procephalon
csw	Stg5-7 and Stg11	dense	no	maternal	no staining detected
twi	Stg5-7 and Stg11	dense	yes	cellular blastoderm, ant endoderm, mesoderm	trunk mesoderm
sna	Stg5-7 and Stg11	dense	yes	ant endoderm, mesoderm	lateral cord neuron, central brain glia, procephalic

						neuroblasts, brain, lateral cord glia, neuroblasts of vent nervous sys, midline, oocyte, vent sensory complex, vent nerve cord
dpp	Stg5-7 and Stg11	dense	yes			
capu	Stg5-7 and Stg11	single	no	maternal/no staining		hindgut proper, dors epidermis, foregut
spir	stg11	single	yes	maternal/ubiquitous		hindgut proper, vent epidermis, foregut, post midgut, vent imaginal precursor, rectum, labral sensory complex, clypeo-labral, gnathal
gd	stg5-7	single	yes	-	-	
Tl	Stg5-7 and Stg11	multiple->dense	yes	-	-	
h	Stg5-7 and Stg11	dense->single	yes	hypopharynx, vent ectoderm, clypeolabrum, dors ectoderm		hindgut proper, hypopharynx, dors epidermis, clypeo-labral

eve	Stg5-7 and Stg11	dense->single	yes	vent ectoderm, dors ectoderm, mesoderm	cardiac mesoderm, anal pad, vent nerve cord
run	Stg5-7 and Stg11	dense->multiple	yes	hindgut, mesoderm, dors ectoderm, vent ectoderm, procephalic ectoderm	vent epidermis, procephalic neuroblasts, brain, neuroblasts of vent nervous sys, vent sensory complex, vent nerve cord, central brain neuron
ftz	Stg5-7 and Stg11	dense->single	yes	faint ubiquitous/vent ectoderm, dors ectoderm	midline, vent nerve cord
odd	Stg5-7 and Stg11	dense	yes	foregut, mesoderm, dors ectoderm, mesectoderm, vent ectoderm, procephalic ectoderm	proventriculus, vent epidermis, pericardial cell, Malpighian tubule, dors epidermis, foregut, cardiac mesoderm, lymph gland, labral sensory complex, atrium, fat body/gonad, clypeo-labral,

					dors apodeme
slp1	Stg5-7 and Stg11	multiple->dense	yes	cellular blastoderm, vent ectoderm, mesoderm, dors ectoderm, procephalic ectoderm	procrystal cell, vent epidermis, dors epidermis, midline, clypeo- labral, antennal
slp2	Stg5-7 and Stg11	single->dense	yes	ectoderm, vent ectoderm, procephalic ectoderm, dors ectoderm, mesectoderm	vent epidermis, vent midline, clypeo-labral, brain
prd	Stg5-7	dense	yes	trunk mesoderm, vent ectoderm, dors ectoderm	vent ectoderm, clypeolabrum
opa	Stg5-7 and Stg11	both	no	maternal/ubiquitous stg4-6	faint ubiquitous
Ubx	Stg5-7 and Stg11	dense->multiple	yes	cellular blastoderm, vent ectoderm, mesoderm, dors ectoderm, mesectoderm	trunk mesoderm, vent nerve cord
abd-A	Stg5-7 and Stg11	dense	yes	maternal/yolk stg4-6	trunk mesoderm, vent epidermis, dors epidermis, vent nerve cord

Abd-B	Stg5-7 and Stg11	multiple->dense	yes	vent ectoderm, mesoderm, dors ectoderm	trunk mesoderm, vent epidermis, vent nerve cord, dors ectoderm
Antp	Stg5-7 and Stg11	multiple->dense	yes	cellular blastoderm, vent ectoderm, dors ectoderm	lateral cord neuron, vent epidermis, neuroblasts of vent nervous sys, lateral cord glia
en	Stg5-7 and Stg11	dense	yes	cellular blastoderm, vent ectoderm, mesoderm, dors ectoderm, mesectoderm	hindgut proper, vent epidermis, head epidermis, brain, somatic muscle, midline, atrium, clypeo- labral, vent nerve cord, lateral cord, gnathal
nkd	Stg5-7 and Stg11	dense	no		
arm	Stg5-7 and Stg11	single	no	maternal	ubiquitous
gsb	Stg5-7 and Stg11	single->dense	yes	hypopharynx, cellular blastoderm, vent ectoderm, dors ectoderm, procephalic ectoderm	vent ectoderm, hypopharynx, dors ectoderm, antennal

gsb-n	Stg5-7 and Stg11	single->multiple	yes	no staining detected	atrium, vent nerve cord, brain, somatic muscle
hh	Stg5-7 and Stg11	dense	yes	-	-
wg	Stg5-7 and Stg11	dense	no	visual, foregut, hindgut, mesderm, dors ectoderm, mesectoderm, ectoderm, vent ectoderm, procephalic ectoderm	proventriculus, hindgut proper, vent epidermis, dors epidermis, visceral muscle, foregut, brain, cardiac mesoderm, optic lobe, clypeo-labral
ptc	Stg5-7 and Stg11	dense	no	-	-
