

SUPPLEMENTARY DATA

Table S1. Development of squamous cell lesions on the dorsal tongues of Sprague-Dawley rats treated with 4NQO (50 ppm) in drinking water.

Duration	Hyper-keratosis	Hyper-plasia	Low-grade Dysplasia	High-grade Dysplasia	CIS	OSCC	Total
12 wks	0	1	4	1	0	2	8
16 wks	3	1	2	0	0	2	8
20 wks	0	1	4	1	1	1	8
24 wks	0	0	4	4	0	0	8

p.s. Low-grade dysplasia = mild and moderate dysplasia

p.s. CIS: carcinoma *in situ*

FIGURE LEGENDS

Figure S1. Primer sequences for Short Tagged Sequence (STS) marker analysis
Primer ID's, chromosomal locations (Chr.), and sequence information for detecting 17
STS implicated in the differential susceptibilities of Dark-Agouti and Wistar/Furth rats to
4NQO-induced tongue cancers. Tsccl, five quantitative trait loci for tongue squamous
cell carcinoma identified by Tanuma et al¹.

REFERENCES

- 1 Tanuma J, Hiai H, Shisa H, Hirano M, Semba I, Nagaoka S *et al.* Carcinogenesis modifier loci in rat tongue are subject to frequent loss of heterozygosity. *Int J Cancer* 2002; 102: 638-642.

Figure S1

	Primer	Chr.	Forward	Reverse
Tsc2	D1Rat213	RNO1	5'-CAGCAACCAGGAACATGAAG-3'	5'-TCCAGTGCTAGGAGCCAAGT-3'
	D1Rat27	RNO1	5'-GGGCAAGCAAAGTACATGGT-3'	5'-TCTCTCCAGCTGCAGGATTT-3'
	D1Rat319	RNO1	5'-CATGGTGTGGTGCTATGGT-3'	5'-TCCCACACTCTTCTGCACTG-3'
	D1Rat320	RNO1	5'-CTCCACATGCACAGGCATAT-3'	5'-CTCCTAAAGTCCCATTGCA-3'
	D1Rat382	RNO1	5'-GGCCGAATGCTTTCAATAGA-3'	5'-GGCATACATGCTCAAACCTGC-3'
Tsc3	D1Mgh21	RNO1	5'-CATCCCCTCATGAATGG-3'	5'-AGGGAGGGAGAACAACACTCATATG-3'
	D1Wox22	RNO1	5'-TACCCACACGTACATGCACA-3'	5'-CAATGTGGTTCCAATCGAAG-3'
	D1Mit5	RNO1	5'-AAAGTGGGGTACTCTCTATGGG-3'	5'-TAGGGTGATACAAGGCAGGG-3'
	D1Wox36	RNO1	5'-AAGGTGGGACCAGGACATC-3'	5'-TGGGACTGACTGGCAAATC-3'
Tsc4	D1Mgh10	RNO1	5'-TGAGGATTGCCTCTGACCC-3'	5'-AACACCTCAAGCATGTGTGC-3'
	D4Mgh18	RNO4	5'-AACACCTCAAGCATGTGTGC-3'	5'-AACATTCTCACCAGCTCATAAGC-3'
	D4Mgh10	RNO4	5'-CAGTGTACACAGTGGTGTACAGAC-3'	5'-ATTGTGATGCTGGGGATTGA-3'
	D5Mgh4	RNO5	5'-GGGACATCTCCACATTTTCA-3'	5'-GGCAAAAATGTCATAGAGGACC-3'
	D5Mgh10	RNO5	5'-GCTTCCACATACACGTGTGG-3'	5'-TGCTACTGAGTTGTGTCTGTTTTG-3'
	D5Mit11	RNO5	5'-CAGCTATGCCCTTCCATCAT-3'	5'-ACAATAGGAAGGGCTACAATGTG-3'
D6Rat55	RNO6	5'-GGGACTCATGCAAATTGTCC-3'	5'-GCAGGGTGCTGTTAGGAGTG-3'	
D6Rat45	RNO6	5'-TGTGCGTTTGTATATTTCTCC-3'	5'-ACCATTGAAAATAAGATAGAAAGCA-3'	
NS	RNO16	5'-AAGAATGACAATGCTGGAGGGC-3'	5'-CCATCCTGTTGGTCTTCTGTCT-3'	
POLR2	RNO10	5'-AAGCAACGGTTGAAGGGCAAGG-3'	5'-AAGGTCATGTTGGCAGCAATGG-3'	