

## Up-regulation of *miR-187* modulates the advances of oral carcinoma by targeting *BARX2* tumor suppressor

### Supplementary Materials

**Supplementary Table S1: Clinicopathological parameters of the OSCC**

<i>n</i> =	56
T1, 2	19
T3, 4	37
N0	34
N1	13
N2	9
Stage I, II	15
Stage III, IV	41

**Supplementary Table S2: Primary antibodies**

Antibodies	Molecular Weight (kDa)	Dilution	Company & Cat #	
<i>BARX2 (S-13)</i>	43	1:200	Santa Cruz Biotech	sc-68144
<i>cMyc (9E10)</i>	67	1:1000	Santa Cruz Biotech	sc-40
<i>Dab2</i>	85	1: 200	BD Biosciences	610465
<i>FIH</i>	40	1: 1000	Santa Cruz Biotech	Sc-26219
<i>GAPDH</i>	36	1:2000	Santa Cruz;	sc-32233
<i>Tubulin</i>	50	1: 5000	Sigma-Aldrich	T51681

**Supplementary Table S3: The primers used to generate reporter constructs by PCR amplification**

BCL6 reverse: CCGAAGCTTTTCAAGTCCCTGTGTCTG  
 DYRK2 forward: CCGTCTAGAGATCTGGTCGGTAAAGG  
 DYRK2 reverse: CCGAAGCTTCCACATTCAACCATTTTCAC  
 FAM80B forward: CCGTCTAGAGGCATTCATCAAGCACATTATC  
 FAM80B reverse: CCGAAGCTTCTGTCTGAGCACCTACATTTTC  
 GRIA3 forward: CCGTCTAGAAGAGGAAATCACCGAAAACG  
 GRIA3 reverse: CCGAAGCTTTGATGGTTTGCATTGTTCGC  
 HIPK3 forward: CCGTCTAGAATGGGAGCAGAAGTCCAG  
 HIPK3 reverse: CCGAAGCTTGGAACCGGTTTACAATGCAG

Forward and reverse; direction.

## Supplementary Table S4: BARX2 3'UTR sequence and reporter construct

Forward primer : 5' GCGACTAGTCCAGTCATCAAAGCAGAGAG 3'

Reverse primer : 5' GCGACGCGTGACCTTGAGCAGTAGGATAG 3'

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>ENST00000281437 utr3:KNOWN_protein_coding
AGTAAAACCCTTTTGAGGGAAGAGGGAGACTGGGGAGAAGGGAAAA
GAGAGAAGGCAGGGAGAGTAGGGAGAGAGAAAACCTTCCAGCAGCCCA
GTAAACTGCGGGCGAAGAGATCTACCCGTCTCCCTCCCTCCCACAGTT
ACCATTGGCCTTGTCATCGCAAGCATTTGACAAAGACTTGCTTGTCTTG
GGCCTGTCACCTCCTGAAAGGCTGCTTTAGCTGTGGATGCCCTTGATTA
AGGGAGAGAGCGCCTAGGAGCTGCCTGCCCCAGCTGGGGTGACGGCTG
TAGGGCTGGGTCTATGTTGCAAGCCCTATATCCTAGCATGCAGTGGAAA
GTGCTTAGCTCTCTCCCTCCTGACCTCTGGGCAGCCAGTCATCAAAGCA
GAGAGACGTGGCGGCATGTGGGCAGCATGCCAGGTTCCCTTGCTGACTC
AGCACTTATTTCTGTAGTTTTAAAAAAGAATTTAATGTTTTTGGTTGTATT
TTTTTGGGGGGGTGAGGGTGGGCAAAAACATGGGGGTAGTTCTGAGTTG
TTAGAAATGTTTCTGAATCAAGTTTGTTTGAAGACACGTGTGCCTTTGTA
CCCATTAAGATGGTCATAAGACCCAAGAAGCTGATAAGCTTTGGTTTTT
TTTTTGTTTTGTTTTGTTTTTGGCTTCATTTACCCATTCATGCCTAGGGTTC
CATTATTGGAACCCTAAGCTTGTTGGGAGTTATTTCTATCCTACTGCTCAA
GGTCATCACCAAGATCTGATTTTTCATAAAAAACATTTGTGACCTTCGGC
ATAAATGGGTAAAGGTGCCATCCCTGAAACTGCAATGCAGATATGTTCA
GATAACTTTTATTTTTTAATTAATAAATAAATCTTTCAAAA
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\**miR-187* binding site underlined.