

# Os**HLH069** 对 **LAX1-LAX2** 复合体的竞争性干扰与穗发育负调控

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## Os**HLH069** Competitively Interferes with the **LAX1-LAX2** Complex and Negatively Regulates Panicle Development

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附表 1 本文中用到的引物信息

Supplementarytable 1 Information of primers used in this study

引物 Primer	引物序列 Primer sequence (5'-3')	用途 Purpose
PM999-Os <b>HLH069</b> -1aa-L	aaa <b>GAATTC</b> ATGCCCGACGAGTGGTGG	
PM999-Os <b>HLH069</b> - $\Delta$ 266-285aa-R	CGCTGCCCGCGGAGTCGGAG	
PM999-Os <b>HLH069</b> - $\Delta$ 266-285aa-L	GCCGGCGCAGCGCTAGGGACAGA	亚细胞定位
PM999-Os <b>HLH069</b> -392aa-R	aaa <b>GTACC</b> CTAAACGTGCCTCCGAATG	Subcellular localization
266-285aa-GFP-L	aaa <b>GAATTC</b> AAGAGGCCACGGATCGAGGTGCCGTCGCCGTT GCCGACGTTCAAGGTGAGGAAAGAGAAG ATGAGTAA	
266-285aa-GFP-R	aaa <b>GTACC</b> CTTCTCTTCTCCTCACCTTGAACG	
GAL4BD-Os <b>HLH069</b> -1aa-L	aaa <b>GAATTC</b> ATGCCCGACGAGTGGTGG	
GAL4BD-Os <b>HLH069</b> -280aa-R	aaa <b>GTACC</b> CTACTTGAACGTCGGCAACGG	
GAL4BD-Os <b>HLH069</b> -271aa-L	aaa <b>GAATTC</b> ATGGAGGTGCCGTCGCCGT	
GAL4BD-Os <b>HLH069</b> -335aa-R	aaa <b>GTACC</b> CTAAGTTCCATTCTTCAAGTACGGA	双荧光素酶试验
GAL4BD-Os <b>HLH069</b> -326aa-L	aaa <b>GAATTC</b> ATGTTGAGCTCTCCGTACTTGAAG	Dual luciferase assay
GAL4BD-Os <b>HLH069</b> -392aa-R	aaa <b>GTACC</b> CTAACCTAAACGTGCCTCCGAATG	
GAL4BD-LAX1-1aa-L	aaa <b>GAATTC</b> ATGCATGACCCACGCGG	
GAL4BD-LAX1-215aa-R	aaaGGTACCAATAAGATCCTTGCGCACCAGACTCC	
BK-Os <b>HLH069</b> -121aa-L	aaa <b>GAATTC</b> ACCAATCCATTCAGGGAC	酵母筛库, 酵母双杂交 Yeast library screening, yeast two-hybrid assay
BK/AD-Os <b>HLH069</b> -1aa-L	aaa <b>GAATTC</b> ATGCCCGACGAGTGGTGG	
BK/AD-Os <b>HLH069</b> -280aa-R	aaa <b>GATCC</b> ACTTGAACGTCGGCAACGG	酵母双杂交 Yeast two-hybrid assay
BK/AD-Os <b>HLH069</b> -271aa-L	aaa <b>GAATTC</b> GAGGTGCCGTCGCCGT	

BK/AD-OsbHLH069-335aa-R	aaa <b>GGATCC</b> AGTTCCCATCTTCAAGTACGGA	
BK/AD-OsbHLH069-326aa-L	aaa <b>GAATTC</b> TTGAGCTCTCCGTA	
BK/AD-OsbHLH069-392aa-R	aaa <b>GGATCC</b> ACCTAAACGTGCCTCCGAATG	酵母筛库, 酵母双杂交 Yeast library screening, yeast two-hybrid assay
AD-OsbHLH069-ΔbHLH-L	GACGTTCAAGTTGAGCTCTCCGTA	
AD-OsbHLH069-ΔbHLH-R	GAGAGCTCAACTTGAACGTCGGCAACG	
BK/AD-LAX1-1aa-L	aaa <b>GAATTC</b> ATGCATGACCCACGCGGC	
BK/AD-LAX1-40aa-R	aaa <b>GGATCC</b> CAGAGCTTGGCGCCGGGG	
BK/AD-LAX1-31aa-L	aaa <b>GAATTC</b> GGCGGGCGCGCGC	
BK/AD-LAX1-99aa-R	aaa <b>GGATCC</b> ACGCGCCTGGTGCAGGGT	
BK/AD-LAX1-90aa-L	aaa <b>GAATTC</b> AAGGCGCAGTACCCCTGC	
AD-LAX1-ΔbHLH-L	GCGCCAAGCTCAAGGCGCAGGTC	酵母双杂交 Yeast two-hybrid assay
AD-LAX1-ΔbHLH-R	GAGCTTGGCGCCGGGG	
BK/AD-LAX1-215aa-R	aaa <b>GGATCC</b> AATAAGATCCTTGGCACCAGACTCC	
BK/AD-LAX2-1aa-L	aaa <b>GAATTC</b> ATGGTCCCGGCTCGGAG	
BK/AD-LAX2-394aa-R	aaa <b>GTCGAC</b> CTAGGGCCTTCTGCCATA	
BK-LAX2-156aa-L	aaa <b>GAATTC</b> CCGACCACGACCTCTTCC	
BK-LAX2-199aa-R	aaa <b>GTCGAC</b> CATGCCGGGAGCACCA	
BK-LAX2-379aa-R	aaa <b>GTCGAC</b> CCAGCGGTTGGTATGTCCGG	
SCYCE-LAX2-L	aaa <b>ACTAGT</b> ATGGTCCCGGCTCGGAG	
SCYCE-LAX2-R	aaa <b>GGTACC</b> GGGCTTCTGCCATACTGC	双分子荧光互补试验
OsbHLH069-SCYNE-L	aaa <b>GGATCC</b> ATGGCCGACGAGTGGTGG	Bimolecular fluorescence complementation assay
OsbHLH069-SCYNE-R	aaa <b>CTCGAC</b> CTAAACGTGCCTCCGAATGTT	
MBP-LAX2-L	aaa <b>GAATTC</b> ATGGTCCCGGCTCGGAG	体外下拉试验
MBP-LAX2-R	aaa <b>GTCGAC</b> CGAAGCCCGAGGAGGCG	<i>In vitro</i> pull-down assay
qRT-OsbHLH069-L	CCGTA	
qRT-OsbHLH069-R	TCTCGCTCGCCACCGTATAAG	
qRT-LAX2-L	GCAGCAGCAACAACGGAGG	实时荧光定量 PCR
qRT-LAX2-R	GGTGGTGGACGGGAAGAGG	Quantitative real-time PCR
Ubiquitin-F	AACCAGCTGAGGCCAAGA	
Ubiquitin-R	ACGATTGATTTAACAGTCCATGA	
1301S-OsbHLH069-L	aaa <b>GGTACC</b> ATGGCCGACGAGTGGTGG	
1301S-OsbHLH069-R	aaa <b>GGATCC</b> CTACCTAAACGTGCCTCCGA	
NLUC-LAX2-L	aaa <b>TCTAGA</b> ATGGTCCCGGCTCGGAG	荧光素酶互补试验
NLUC-LAX2-R	aaa <b>GTCGAC</b> GGGCTTCTGCCATACTGC	Luciferase complementation assay
CLUC-LAX1-L	aaa <b>GGTACC</b> ATGCATGACCCACGCGG	
CLUC-LAX1-R	aaa <b>TCTAGA</b> AATAAGATCCTTGGCACCAGA	

注：加粗标记的碱基为酶切位点序列，“aaa”为酶切位点保护碱基，ΔbHLH 代表缺失 bHLH 结构域

Note: The bases marked in bold are the restriction enzyme recognition sites, “aaa” are the bases that protect the restriction sites, and ΔbHLH indicates the missing bHLH domain