Figure S1. Representative tumor images from different treatment groups of xenografts. Scale bars, 10 mm. LNCaP cells transfected with recombinant lentiviral vectors (*OPHN1* overexpression, OPHN1-OE) were injected into mice subcutaneously (20 mice/group), and then the tumor growth was monitored, while the LNCaP cells transfected with empty vectors were injected as controls. *OPHN1*, oligophrenin 1.



Table SI. Clinical variables of the cohorts.

Characteristics	Datasets			
	MCTP (59 cases)	SU2C/PCF Dream Team (429 cases)	MSK (424 cases)	Provisional (53 cases)
Age (years, mean \pm SD)	70.71±7.53	61.34±8.11	65.56±9.18	60.07±7.8
Race (cases)				
Caucasian	N/A	N/A	312	72
African	N/A	N/A	26	
American	N/A	N/A		
Other	N/A	N/A	85	3
Total PSA (ng/ml)	1,142.19±1,818.16	164.47±941.90	244.8±972.58	N/A
Gleason score (cases)				
≤6	0	29	19	6
7	2	107	85	18
>8	9	222	280	51
NA	50	86	40	0
Overall survival (months)	36.45±31.96	20.62±12.53	30.09±22.21	N/A
Therapy (cases)				
ADT	48	N/A	332	66
Prostatectomy	17	444	N/A	51
Chemotherapy	45	350	N/A	25
Radiotherapy	27	N/A	N/A	N/A
AR amplification (cases)	27	208	27	3
OPHN1 amplification (cases)	16	166	0	1

MCTP data adapted from Ref (16); SU2C/PCF data adapted from Ref (17); MSK data adapted from Ref (18); and Provisional data adapted from The Metastatic Prostate Cancer Project (provisional, November 2019). ADT, androgen deprivation therapy; MCTP, Michigan Center for Translational Pathology; SU2C/PCF, Stand Up to Cancer/Prostate Cancer Foundation; MSK, Memorial Sloan Kettering; N/A, not available.