Table S1. DNA templates of MGMT crRNAs for Cas13x All-in-one vector cloning

crRNA-1	Forward	5’-ACCGCGCAAACGGTGCGCACCGCGAGG-3’
	Reverse	5’-CAGCCCTCGCGGTGCGCACCGTTTGCG-3’
crRNA-2	Forward	5’-ACCGACAATCCTTGTCCATTTTTCCAA-3’
	Reverse	5’-CAGCTTGGAAAA**ATG**GACAAGGATTGT-3’
crRNA-3	Forward	5’-ACCGCTGGGACCTCCACGGCATCAGCT-3’
	Reverse	5’-CAGCAGCTGATGCCGTGGAGGTCCCAG-3’
crRNA-4	Forward	5’-ACCGGCCTGCCAGGGCTGCTAATTGCT-3’
	Reverse	5’-CAGCAGCAATTAGCAGCCCTGGCAGGC-3’
NSC-crRNA	Forward	5’-ACCGGTATTACTGATATTGGTGGG-3’
	Reverse	5’-CAGCCCCACCAATATCAGTAATAC-3

Note: Red letters are cloning sequence. Black letters are MGMT mRNA targeting sequence

Table S2. DNA templates of MGMT crRNAs for Cas13d All-in-one vector cloning

crRNA-1	Forward	5’-AAACCGCAAACGGTGCGCACCGCGAGG-3’
	Reverse	5’-AAAACCTCGCGGTGCGCACCGTTTGCG-3’
crRNA-2	Forward	5’-AAACACAATCCTTGTCCATTTTTCCAA-3’
	Reverse	5’-AAAATTGGAAAAATGGACAAGGATTGT-3’
crRNA-3	Forward	5’-AAACCTGGGACCTCCACGGCATCAGCT-3’
	Reverse	5’-AAAAAGCTGATGCCGTGGAGGTCCCAG-3’
crRNA-4	Forward	5’-AAACGCCTGCCAGGGCTGCTAATTGCT-3’
	Reverse	5’-AAAAAGCAATTAGCAGCCCTGGCAGGC-3’
NSC-crRNA	Forward	5’-AAACGTATTACTGATATTGGTGGG-3’
	Reverse	5’-AAAACCCACCAATATCAGTAATAC-3

Note: Red letters are cloning sequence. Black letters are MGMT mRNA targeting sequence

Table S3. Primers of crRNA DNA template synthesis for in vitro crRNA transcription for Cas13x

crRNA-1	Forward	5’-GCGGCCTCTAATAGGACTCACTATAGGGCGCAAACGGTGCGCACCGCGAGG-3
crRNA-2	Forward	5’-GCGGCCTCTAATAGGACTCACTATAGGGACAATCCTTGTCCATTTTTCCAA-3’
crRNA-3	Forward	5’-GCGGCCTCTAATAGGACTCACTATAGGGCTGGGACCTCCACGGCATCAGCT-3’
crRNA-4	Forward	5’-GCGGCCTCTAATAGGACTCACTATAGGGGCCTGCCAGGGCTGCTAATTGCT-3’
NSC-crRNA	Forward	5’-GCGGCCTCTAATAGGACTCACTATAGGGGTATTACTGATATTGGTGGG-3’
drRNA scaffold	Reverse	5’-AGCTGTAATCACCCCACAAA-3’

Note: Red letters are T7 promoter sequence. Black letters are MGMT mRNA targeting sequence. To synthesize each MGMT crRNA DNA templates, PCR reactions were employed with Cas13x-crRNA-All-in-One plasmids used as PCR template and primer pairs of each forward primer plus drRNA scaffold reverse primer.