

Supplemental Data

Transcriptional Regulation of SULT1C2 by Vitamin D Receptor in LS180 Human Colorectal Adenocarcinoma Cells

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Drug Metabolism and Disposition

Supplemental Table 1. PCR Primers and oligonucleotides used to prepare constructs and probes in this study.

| | Sequence | Comments |
|--|---|--|
| Primers to prepare SULT1C2 (-4998:-1) | | |
| FOR | 5' GGG <u>GGTACC</u> CAGGCAGCTGAGGGCCAGGA 3' | KpnI site underscored. |
| REV | 5' GGG <u>GCTAGC</u> AGTGTCTCAGGGTTGGGGTC 3' | NheI site underscored. |
| Primers to prepare SULT1C2 (-4827:-1) deletion construct | | |
| FOR | 5' GGG <u>GGTACC</u> ACAGGGTTTGTCTGTTCAATCCG 3' | KpnI site underscored. |
| REV | 5' GGG <u>GCTAGC</u> AGTGTCTCAGGGTTGGGGTC 3' | NheI site underscored; same REV primer for SULT1C2 (-4998:-1) (Rondini et al., 2014). |
| Primers to prepare mutant VDRE SULT1C2 | | |
| FOR | 5' TTGGTATTTGCACAGCAGTCAGTTGCACATGAGTGATCATGGTACAG 3' | Mutated bases underscored. |
| REV | 5' CTGTACCATGATCACTCATGTGCAACTGACTGCTGTGCAAATACCAA 3' | Mutated bases underscored. |
| Primers to prepare VDR expression plasmid | | |
| FOR | 5' GGG <u>AAGCTT</u> CCCCTGCTCCTTCAGGGATG 3' | HindIII site underscored. |
| REV | 5' GGG <u>CTCGAG</u> TCAGGAGATCTCATTGCCAAACACT 3' | XhoI site underscored. |
| Oligonucleotides for VDR-VDRE <i>In Vitro</i> Binding Assay | | |
| Capture Probe: 5'-end biotin-modified consensus VDRE probe | | |
| Sense | 5' TGGATGAGCGGAGCTGCCCTGCACTGGGTGAATGAGGACATTACTGACCG 3' | VDRE consensus sequence (DR3) underscored. 5'-end biotin modification of sense strand. |
| Antisense | 5' CGGTCAGTAATGTCCCTCATTCACCCAGTGCAGGGCAGCTCCGCTCATCCA 3' | |
| Negative Probe: 5'-end biotin-modified mutated consensus VDRE probe | | |
| Sense | 5' TGGATGAGCGGAGCTGCCCTGCACTGtaTGAATGActACATTACTGACCG 3' | Consensus VDRE sequence (DR3) underscored; mutated bases lower case. 5'-end biotin modification of sense strand. |
| Antisense | 5' CGGTCAGTAATGTtagTCATTCAtaCAGTGCAGGGCAGCTCCGCTCATCCA 3' | |
| Competitor 1: Consensus VDRE probe | | |
| Sense | 5' GCCCTGCACTGGGTGAATGAGGACATTACTGACCG 3' | Consensus VDRE sequence (DR3) underscored. |
| Antisense | 5' CGGTCAGTAATGTCCCTCATTCACCCAGTGCAGGGC 3' | |
| Competitor 2: Mutated consensus VDRE probe | | |
| Sense | 5' GCCCTGCACTGtaTGAATGActACATTACTGACCG 3' | Mutated consensus VDRE sequence (DR3) underscored; mutated bases lower case. |
| Antisense | 5' CGGTCAGTAATGTtagTCATTCAtaCAGTGCAGGGC 3' | |
| Competitor 3: SULT1C2 VDRE probe | | |
| Sense | 5' ACAGCAGTCAGGGTCACATGAGTGATCATGGTACA 3' | Computationally predicted SULT1C2 PXRE core sequence underscored. |
| Antisense | 5' TGTACCATGATCACTCATGTGACCCTGACTGCTGT 3' | |
| Competitor 4: SULT1C2 mutated VDRE probe | | |
| Sense | 5' ACAGCAGTCAGaacCACATGAGTGATCATGGTACA 3' | Computationally predicted PXRE core sequence underscored; mutated bases lower case. |
| Antisense | 5' TGTACCATGATCACTCATGTGgttCTGACTGCTGT 3' | |