**Supplementary    Table    1**.    List    of    differentially    expressed    genes    identified    at    tHree    days    after    tHe    start    of    ETC-­‐159    treatment    of    colorectal    tumors.    Log2



fold-­‐cHanges    between    untreated    (veHicle,    VEH)    and    ETC-­‐159    treated    (ETC)    tumors    are    reported.        CHanges    in    gene    expression    were    considered

significant    if    tHe    Benjamini-­‐HocHberg    adjusted    P-­‐value    <0.0001    (see    MetHods    for    details    on    tHe    RNAseq    and    differential    expression    analysis).    (A)

Genes    signifincantly    down-­‐regulated    after    ETC-­‐169    treatment;    (B)    genes    signifincantly    up-­‐regulated    after    ETC-­‐169    treatment.    EacH    table    is    sorted

according    to    tHe    significance    of    differential    expression    (BH    adjusted    P-­‐value).

(A)    Genes    down-­‐regulated    after    ETC-­‐159    treatment

log2    fold

Gene

symbol ENSEMBL    gene    ID Gene    description

cHange

(VEH/ETC)

BH-­‐adjusted    P-­‐value

RRM2 ENSG00000171848 ribonucleotide    reductase    M2    [Source:HGNC    Symbol;Acc:10452] 4.93 1.2E-­‐162

MKI67 ENSG00000148773 marker    of    proliferation    Ki-­‐67    [Source:HGNC    Symbol;Acc:7107] 4.35 1.0E-­‐142

CLDN2 ENSG00000165376 claudin    2    [Source:HGNC    Symbol;Acc:2041] 5.03 2.3E-­‐130

CCNB1 ENSG00000134057 cyclin    B1    [Source:HGNC    Symbol;Acc:1579] 3.99 5.3E-­‐129

minicHromosome    maintenance    complex    component    4    [Source:HGNC

MCM4 ENSG00000104738

Symbol;Acc:6947]                                          3.03           1.4E-­‐128

CDCA7 ENSG00000144354 cell    division    cycle    associated    7    [Source:HGNC    Symbol;Acc:14628] 5.74 9.6E-­‐117

FOXM1 ENSG00000111206 forkHead    box    M1    [Source:HGNC    Symbol;Acc:3818] 4.39 1.8E-­‐112

UBE2C ENSG00000175063 ubiquitin-­‐conjugating    enzyme    E2C    [Source:HGNC    Symbol;Acc:15937] 3.99 5.3E-­‐106

topoisomerase    (DNA)    II    alpHa    170kDa    [Source:HGNC

TOP2A ENSG00000131747

MCM6 ENSG00000076003

Symbol;Acc:11989]                                         4.90           1.0E-­‐104

minicHromosome    maintenance    complex    component    6    [Source:HGNC

Symbol;Acc:6949]                                          4.19           7.6E-­‐100

STMN1 ENSG00000117632 statHmin    1    [Source:HGNC    Symbol;Acc:6510] 4.22 2.3E-­‐96

CDCA5 ENSG00000146670 cell    division    cycle    associated    5    [Source:HGNC    Symbol;Acc:14626] 4.82 4.5E-­‐95

PRC1 ENSG00000198901 protein    regulator    of    cytokinesis    1    [Source:HGNC    Symbol;Acc:9341] 3.16 4.0E-­‐94

nucleolar    and    spindle    associated    protein    1    [Source:HGNC

NUSAP1 ENSG00000137804

ALDH1B1 ENSG00000137124

Symbol;Acc:18538]                                         4.40            5.2E-­‐94

aldeHyde    deHydrogenase    1    family,    member    B1    [Source:HGNC

Symbol;Acc:407]                                          4.20            1.0E-­‐91

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CENPF ENSG00000117724 centromere    protein    F,    350/400kDa    [Source:HGNC    Symbol;Acc:1857] 4.69 1.1E-­‐87



TTK ENSG00000112742 TTK    protein    kinase    [Source:HGNC    Symbol;Acc:12401] 4.54 3.1E-­‐87

ZW10    interacting    kinetocHore    protein    [Source:HGNC

ZWINT ENSG00000122952

HMMR ENSG00000072571

MCM3 ENSG00000112118

Symbol;Acc:13195]                                         3.12            1.0E-­‐86

Hyaluronan-­‐mediated    motility    receptor    (RHAMM)    [Source:HGNC

Symbol;Acc:5012]                                          4.27            1.5E-­‐84

minicHromosome    maintenance    complex    component    3    [Source:HGNC

Symbol;Acc:6945]                                          2.97            3.6E-­‐84

KIF4A ENSG00000090889 kinesin    family    member    4A    [Source:HGNC    Symbol;Acc:13339] 4.02 1.0E-­‐83

ubiquitin-­‐like    witH    PHD    and    ring    finger    domains    1    [Source:HGNC

UHRF1 ENSG00000034063

FAM111B ENSG00000189057

Symbol;Acc:12556]                                         3.64            1.1E-­‐83

family    witH    sequence    similarity    111,    member    B    [Source:HGNC

Symbol;Acc:24200]                                         5.54            4.1E-­‐83

LMNB1 ENSG00000113368 lamin    B1    [Source:HGNC    Symbol;Acc:6637] 4.91 7.9E-­‐83

NEK2 ENSG00000117650 NIMA-­‐related    kinase    2    [Source:HGNC    Symbol;Acc:7745] 4.21 7.9E-­‐83

BIRC5 ENSG00000089685 baculoviral    IAP    repeat    containing    5    [Source:HGNC    Symbol;Acc:593] 4.72 9.3E-­‐83

ARHGAP11A ENSG00000198826 RHo    GTPase    activating    protein    11A    [Source:HGNC    Symbol;Acc:15783] 5.13 2.4E-­‐82

flap    structure-­‐specific    endonuclease    1    [Source:HGNC

FEN1 ENSG00000168496

Symbol;Acc:3650]                                          2.73            1.5E-­‐81

CDK1 ENSG00000170312 cyclin-­‐dependent    kinase    1    [Source:HGNC    Symbol;Acc:1722] 3.99 3.1E-­‐81

asp    (abnormal    spindle)    Homolog,    microcepHaly    associated

ASPM ENSG00000066279

ASCL2 ENSG00000183734

(DrosopHila)    [Source:HGNC    Symbol;Acc:19048]                      4.31            5.1E-­‐81

acHaete-­‐scute    family    bHLH    transcription    factor    2    [Source:HGNC

Symbol;Acc:739]                                          7.50            9.4E-­‐81

KNTC1 ENSG00000184445 kinetocHore    associated    1    [Source:HGNC    Symbol;Acc:17255] 3.09 1.3E-­‐80

KIF11 ENSG00000138160 kinesin    family    member    11    [Source:HGNC    Symbol;Acc:6388] 4.36 3.2E-­‐80

minicHromosome    maintenance    complex    component    2    [Source:HGNC

MCM2 ENSG00000073111

Symbol;Acc:6944]                                          3.81            2.9E-­‐79

-­‐-­‐ ENSG00000268310 UncHaracterized    protein        [Source:UniProtKB/TrEMBL;Acc:M0R3F9] 5.04 2.2E-­‐78

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KIAA1324 ENSG00000116299 KIAA1324    [Source:HGNC    Symbol;Acc:29618] 3.71 1.1E-­‐77



CDKN3 ENSG00000100526 cyclin-­‐dependent    kinase    inHibitor    3    [Source:HGNC    Symbol;Acc:1791] 3.58 1.5E-­‐77

GINS    complex    subunit    1    (Psf1    Homolog)    [Source:HGNC

GINS1 ENSG00000101003

Symbol;Acc:28980]                                         3.90            3.1E-­‐77

TPX2 ENSG00000088325 TPX2,    microtubule-­‐associated    [Source:HGNC    Symbol;Acc:1249] 3.07 3.7E-­‐77

suppressor    APC    domain    containing    2    [Source:HGNC

SAPCD2 ENSG00000186193

Symbol;Acc:28055]                                         3.52            8.9E-­‐76

LDHB ENSG00000111716 lactate    deHydrogenase    B    [Source:HGNC    Symbol;Acc:6541] 2.76 1.5E-­‐75

leucine-­‐ricH    repeats    and    immunoglobulin-­‐like    domains    1

LRIG1 ENSG00000144749

[Source:HGNC    Symbol;Acc:17360]                               2.56            2.2E-­‐75

CENPU ENSG00000151725 centromere    protein    U    [Source:HGNC    Symbol;Acc:21348] 3.62 1.1E-­‐74

HELLS ENSG00000119969 Helicase,    lympHoid-­‐specific    [Source:HGNC    Symbol;Acc:4861] 5.08 1.1E-­‐74

Holliday    junction    recognition    protein    [Source:HGNC

HJURP ENSG00000123485

Symbol;Acc:25444]                                         4.74            1.1E-­‐74

KIF2C ENSG00000142945 kinesin    family    member    2C    [Source:HGNC    Symbol;Acc:6393] 4.57 7.8E-­‐74

metHylenetetraHydrofolate    deHydrogenase    (NADP+    dependent)    1,

metHenyltetraHydrofolate    cycloHydrolase,    formyltetraHydrofolate

MTHFD1 ENSG00000100714

NCAPH ENSG00000121152

syntHetase    [Source:HGNC    Symbol;Acc:7432]                        2.98            4.3E-­‐73

non-­‐SMC    condensin    I    complex,    subunit    H    [Source:HGNC

Symbol;Acc:1112]                                          4.52            5.5E-­‐73

AURKB ENSG00000178999 aurora    kinase    B    [Source:HGNC    Symbol;Acc:11390] 5.23 1.7E-­‐72

KIF23 ENSG00000137807 kinesin    family    member    23    [Source:HGNC    Symbol;Acc:6392] 4.29 5.7E-­‐72

HMGB2 ENSG00000164104 HigH    mobility    group    box    2    [Source:HGNC    Symbol;Acc:5000] 3.72 5.8E-­‐71

KIF20A ENSG00000112984 kinesin    family    member    20A    [Source:HGNC    Symbol;Acc:9787] 4.53 2.4E-­‐70

repulsive    guidance    molecule    family    member    b    [Source:HGNC

RGMB ENSG00000174136

Symbol;Acc:26896]                                         2.94            1.2E-­‐69

TROAP ENSG00000135451 tropHinin    associated    protein    [Source:HGNC    Symbol;Acc:12327] 4.08 1.5E-­‐69

CCNB2 ENSG00000157456 cyclin    B2    [Source:HGNC    Symbol;Acc:1580] 3.62 2.5E-­‐67

PARP1 ENSG00000143799 poly    (ADP-­‐ribose)    polymerase    1    [Source:HGNC    Symbol;Acc:270] 3.28 8.0E-­‐67

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MAD2L1 ENSG00000164109



MAD2    mitotic    arrest    deficient-­‐like    1    (yeast)    [Source:HGNC

Symbol;Acc:6763]                                          4.86            2.8E-­‐65

MSH2 ENSG00000095002 mutS    Homolog    2    [Source:HGNC    Symbol;Acc:7325] 3.61 3.9E-­‐65

POLQ ENSG00000051341 polymerase    (DNA    directed),    tHeta    [Source:HGNC    Symbol;Acc:9186] 5.00 6.1E-­‐65

BUB1    mitotic    cHeckpoint    serine/tHreonine    kinase    [Source:HGNC

BUB1 ENSG00000169679

NCAPD3 ENSG00000151503

Symbol;Acc:1148]                                          4.08            2.7E-­‐63

non-­‐SMC    condensin    II    complex,    subunit    D3    [Source:HGNC

Symbol;Acc:28952]                                         2.59            1.1E-­‐62

CEP55 ENSG00000138180 centrosomal    protein    55kDa    [Source:HGNC    Symbol;Acc:1161] 3.72 1.4E-­‐62

anti-­‐silencing    function    1B    Histone    cHaperone    [Source:HGNC

ASF1B ENSG00000105011

Symbol;Acc:20996]                                         3.88            1.8E-­‐62

SPAG5 ENSG00000076382 sperm    associated    antigen    5    [Source:HGNC    Symbol;Acc:13452] 3.08 2.5E-­‐62

citron    (rHo-­‐interacting,    serine/tHreonine    kinase    21)    [Source:HGNC

CIT ENSG00000122966

FAM83D ENSG00000101447

Symbol;Acc:1985]                                          4.12            6.2E-­‐62

family    witH    sequence    similarity    83,    member    D    [Source:HGNC

Symbol;Acc:16122]                                         3.55            7.6E-­‐62

KIFC1 ENSG00000237649 kinesin    family    member    C1    [Source:HGNC    Symbol;Acc:6389] 3.78 1.2E-­‐61

CDC28    protein    kinase    regulatory    subunit    2    [Source:HGNC

CKS2 ENSG00000123975

MYBL2 ENSG00000101057

Symbol;Acc:2000]                                          2.78            2.8E-­‐61

v-­‐myb    avian    myeloblastosis    viral    oncogene    Homolog-­‐like    2

[Source:HGNC    Symbol;Acc:7548]                                4.11            4.1E-­‐61

DUT ENSG00000128951 deoxyuridine    tripHospHatase    [Source:HGNC    Symbol;Acc:3078] 3.41 5.6E-­‐61

RACGAP1 ENSG00000161800 Rac    GTPase    activating    protein    1    [Source:HGNC    Symbol;Acc:9804] 2.84 8.6E-­‐61

replication    factor    C    (activator    1)    3,    38kDa    [Source:HGNC

RFC3 ENSG00000133119

Symbol;Acc:9971]                                          4.60            3.0E-­‐60

AURKA ENSG00000087586 aurora    kinase    A    [Source:HGNC    Symbol;Acc:11393] 2.53 3.1E-­‐60

HOXB9 ENSG00000170689 Homeobox    B9    [Source:HGNC    Symbol;Acc:5120] 2.62 3.8E-­‐60

PBK ENSG00000168078 PDZ    binding    kinase    [Source:HGNC    Symbol;Acc:18282] 5.06 4.0E-­‐60

AHCY ENSG00000101444 adenosylHomocysteinase    [Source:HGNC    Symbol;Acc:343] 2.31 4.3E-­‐60

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ALDH7A1 ENSG00000164904



aldeHyde    deHydrogenase    7    family,    member    A1    [Source:HGNC

Symbol;Acc:877]                                          2.98            7.4E-­‐60

PSRC1 ENSG00000134222 proline/serine-­‐ricH    coiled-­‐coil    1    [Source:HGNC    Symbol;Acc:24472] 4.31 1.2E-­‐59

non-­‐SMC    condensin    I    complex,    subunit    G    [Source:HGNC

NCAPG ENSG00000109805

Symbol;Acc:24304]                                         3.45            1.8E-­‐59

ANLN ENSG00000011426 anillin,    actin    binding    protein    [Source:HGNC    Symbol;Acc:14082] 3.50 2.2E-­‐59

CDC20 ENSG00000117399 cell    division    cycle    20    [Source:HGNC    Symbol;Acc:1723] 4.06 3.3E-­‐59

karyopHerin    alpHa    2    (RAG    coHort    1,    importin    alpHa    1)    [Source:HGNC

KPNA2 ENSG00000182481

Symbol;Acc:6395]                                          2.41            6.8E-­‐59

NPM3 ENSG00000107833 nucleopHosmin/nucleoplasmin    3    [Source:HGNC    Symbol;Acc:7931] 3.05 1.9E-­‐58

long    intergenic    non-­‐protein    coding    RNA    261    [Source:HGNC

LINC00261 ENSG00000259974

Symbol;Acc:16189]                                         3.67            5.7E-­‐58

GYLTL1B ENSG00000165905 glycosyltransferase-­‐like    1B    [Source:HGNC    Symbol;Acc:16522] 4.53 8.7E-­‐58

complement    component    1,    q    subcomponent    binding    protein

C1QBP ENSG00000108561

NDC80 ENSG00000080986

[Source:HGNC    Symbol;Acc:1243]                                2.39            9.1E-­‐58

NDC80    kinetocHore    complex    component    [Source:HGNC

Symbol;Acc:16909]                                         4.14            9.4E-­‐58

BRCA1 ENSG00000012048 breast    cancer    1,    early    onset    [Source:HGNC    Symbol;Acc:1100] 4.09 1.0E-­‐57

APEX    nuclease    (multifunctional    DNA    repair    enzyme)    1    [Source:HGNC

APEX1 ENSG00000100823

PTPLAD1 ENSG00000074696

NUF2 ENSG00000143228

Symbol;Acc:587]                                          2.21            2.1E-­‐57

protein    tyrosine    pHospHatase-­‐like    A    domain    containing    1

[Source:HGNC    Symbol;Acc:24175]                               2.56            4.2E-­‐57

NUF2,    NDC80    kinetocHore    complex    component    [Source:HGNC

Symbol;Acc:14621]                                         4.45            5.5E-­‐57

CCNA2 ENSG00000145386 cyclin    A2    [Source:HGNC    Symbol;Acc:1578] 3.45 6.8E-­‐57

KIF18B ENSG00000186185 kinesin    family    member    18B    [Source:HGNC    Symbol;Acc:27102] 4.61 1.5E-­‐56

discs,    large    (DrosopHila)    Homolog-­‐associated    protein    5    [Source:HGNC

DLGAP5 ENSG00000126787

Symbol;Acc:16864]                                         4.13            2.3E-­‐56

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