Norovirus GII isolate NORO_200_25_11_2015, complete genome

GenBank: MH218661.1

FASTA Graphics

Go to:

LOCUS MH218661 7538 bp RNA linear VRL 11-JUN-2018

DEFINITION Norovirus GII isolate NORO_200_25_11_2015, complete genome.

ACCESSION MH218661

VERSION MH218661.1

KEYWORDS .

SOURCE Norovirus GII

ORGANISM Norovirus GII

Viruses; Riboviria; Orthornavirae; Pisuviricota; Pisoniviricetes; Picornavirales; Caliciviridae; Norovirus.

REFERENCE 1 (bases 1 to 7538)

AUTHORS Brown,J.R., Roy,S., Shah,D., Williams,C.A., Williams,R., Dunn,H., Hartley,J., Harris,K. and Breuer,J.

TITLE Norovirus transmission dynamics in a paediatric hospital using full genome sequences

JOURNAL Clin. Infect. Dis. (2018) In press

PUBMED 29800111

REMARK Publication Status: Available-Online prior to print

REFERENCE 2 (bases 1 to 7538)

AUTHORS Brown,J.R., Roy,S., Shah,D., Williams,C.A., Williams,R., Dunn,H., Hartley,J., Harris,K. and Breuer,J.

TITLE Direct Submission

JOURNAL Submitted (17-APR-2018) Division of Infection and Immunity, University College London, 90 Gower St, London, London WC1E 6BT, United KingdomCOMMENT ##Assembly-Data-START##

Assembly Method :: CLC Genomics Workbench v. 10.1

Sequencing Technology :: Illumina

##Assembly-Data-END##FEATURES Location/Qualifiers

source 1..7538

/organism="Norovirus GII"

/mol_type="genomic RNA"

/isolate="NORO_200_25_11_2015"

/host="Homo sapiens"

/db_xref="taxon:122929"

/country="United Kingdom"

/collection_date="25-Nov-2015"

/note="genotype: GII.P7_GII.7"

gene 5..5098

/gene="ORF1"

CDS 5..5098

/gene="ORF1"

/codon_start=1

/product="nonstructural polyprotein"

/protein_id="AWR17643.1"

/translation="MKMASNDATAAFGSQNSVNDSNNATPSNKEEVGAFSNIKVGFKK
MLGAVPKGTKAPSSNQNCPTVKIGPKTLTIPPEPPNGEDTVQFDAKSETIIGLPDLTT
VQNEHENNPYTVPPLSEREYRPATEPLPGTILEMWDGEFYHYSVYVSDGKALGVHKPP
AAISLATIELTPISLYWRPVYTPNYLVSPDTLKGLAGEKFPYTAFSNNCYNFCCWVLD
LNDTWLNRRCISRTTGFFKPYQSWNRKPLPTVDDGKIKKVANAILCALGSLFSKPIKD
LLGKLKPLNLLHLLASCDWTFAGIVETVILMAELFNVFWTPPDVSNFIASLIGDFELQ
GPEDLAVELVPVVMGGIGMVLGFTAEKIGRMLSSAASTLRACKDLGNYALDILKLVMK
WFFPKKEEKAEMETLRAIEDAVLDMEAIGNNHLTTLLKDKDSLTAFMKTLDLEEEKAR
KLSTKSSSPDIVGTINAILARIAAARSLLHKAKEEMFSRIRPVVVMISGRPGIGKTHM
ARHLAKSIANTMSGDQRVGLVPRNGVDHWDAYRGERVVLWDDYGMGSPVKDALTLQEL
ADTCPVTLNCDRIENKGKMFDSDVIIITTNLVNPAPLDYVNFEACSRRVDFLVYAESP
EIEKVKRDFPGQPDMWKDHFKPDFSHIKLTLAPQGGFDKNGNTPHGKGTMRSLTQGSL
TARVAGLVHERRDEFQLQGNDLQTYNFDTNRVSAFRKLAADNKYGIMETMRVGAALKS
VKTLEDLKAALRDVKFNECEIIYKNSKYRVSSNGKGSVSVDKVEDNASQTVNEVHSAL
LRLRQARARYYISCFQDLVYTLMQVAGASFVVSRISRRFCWERWVKPTETQEVNEPEK
EVAQGGWEIEPKDTEPEGKKGKNKKGRGKKHTAFSSKGLSDEEYDEFKRIKEERNGKY
SIEEYLQDRDRYYEEVAVARATEEDFCEEEEAKIRQRIFRPTRKQRKEERGVLGLVTG
SDIRKRRPDDFQPKGNLWADDTRSVDYNERLDFEAPPSVWSRIVPLGTGWGFWVSSNL
LITTTHVLPKGIKELFGVEIKQIQVHKSGEFCRFRFPRPIRPDVTGLVLEEGAPEGTV

CSVLVKRPTGEMIPLAVRMGTHASMKIQGRTVGGQMGMLLTGANAKNMDLGTGPGDCG

CPYIYKRGNDIVVAGVHTAAARGGNTVICATQGQDGEAVLEGNEDLGTYCGAPILGPG

KAPKLSTKTKFWRSSPDALPPGTYEPAYLGGKDPRVEKGPSLQQVMRDQLRPFTEPRG

KPPRPAVLEEAKKTVMNVLEQTIDPAKPWSYSQACASLDKTTSSGSPHHVKKNDHWNG

ESFTGPLADQASKANLMYEQAKHVQPVYTAALKDELVKTDKIYKKIKKRLLWGSDLGT

MIRCARAFGGLMDSMKASCIALPCRVGMNMNEDGPIIFDKHSKYRYHYDADYSRWDST

QQRSILSAAMEVMVRFSAEPELAQVVAEDLLAPSQLDVGDFVISVQEGLPSGVPCTSQ

WNSIAHWILTLSAMAEVSGLSPDVVQAHSCFSFYGDDEIVSTDINLDPMKLTQKLREY

GLVPTRPDKTEGPLVITEDLTGLTFLRRSIARDPAGWFGKLDQDSILRQLYWTRGPNH

ENPYESMVPHSQRATQLMALLGEASLHGPQFYKKVSKMVINEIKSGGLEFYVPRQEAM

FRWMRFSDLSTWEGDRNLAPEGVNEDGVE"

gene 5079..6701

/gene="ORF2"

CDS 5079..6701

/gene="ORF2"

/codon_start=1

/product="VP1"

/protein_id="AWR17641.1"

/translation="MKMASNDAAPSNDGAAGLVPEINNEVMPLEPVAGASLATPVVGQ

QNIIDPWIRNNFVQAPAGEFTVSPRNSPGEILLDLELGPELNPYLAHLARMYNGHAGG

MEVQIVLAGNAFTAGKIIFAAIPPGFPYENLSPSQITMCPHVIIDVRQLEPVLLPMPD

IRNNFFHYNQGNDPKLRLVAMLYTPLRANNSGDDVFTVSCRVLTKPSPDFEFTFLVPP

TVESKTKQFTLPILKISEMTNSRFPVPVEMMYTARNENQVVQPQNGRVTLDGELLGTT

PLLAVNICKFKGEVIAKNGDVRSYRMDMEITNTDGTPIDPTEDTPGPIGSPDFQGILF

GVASQRNKSEQNPATRAHEANINTGGDQYAPKLAQVKFFSESQDFEVHQPTVFTPVGV

AGDPSHPFRQWVLPRYGGHLTNNTHLAPAVAPLFPGEQILFFRSQIPSSGGHELGYMD

CLVPQEWVQHFYQEAATAQSEVALIRFINPDTGRVLFEAKLHKQGFITVAHTGDNPIV

MPPNGYFRFEAWVNQFYSLAPVGTGNGRRRIQ"

gene 6701..7474

/gene="ORF3"

CDS 6701..7474

/gene="ORF3"

/codon_start=1

/product="VP2"

/protein_id="AWR17642.1"

/translation="MASAFFANLAGGVASNGISSLINAGANAINQKVEFDYNKQLQNA

SFSHDKEMLQAQIEATKRLQQEMIDIKQGVLTAAGFSPTDAARGSVGAPMTKLVDWSG

TRYWAPGAMRTTGYSGTFTHLPPMQSASYVNNQNRQLFKVDPSPSSSSGSSVSSVKTQ

STALSGTSRVDSSSQSTLSTRPSSRTSDWVRSQNERLSPFMNGALQTAYVTPPSSRAS

SVSTVSTVPKEVLDSWTPMFNTHRQPLFAHLRRRGESQI"ORIGIN

```
   1 gtgaatgaag atggcgtcta acgacgctac cgctgccttt ggcagtcaaa actctgtcaa
  61 tgacagtaac aacgccaccc cttctaacaa agaagaggtt ggtgcattct ccaacattaa
 121 agttggattt aagaaaatgc tgggcgccgt acccaaaggt accaaagcgc ccagcagtaa
 181 tcaaaattgc cccacagtta aaatcgggcc taaaacgtta acaattcctc ctgagccccc
 241 aaatggtgaa gacaccgtac aatttgatgc aaagtcagaa actataattg ggctaccaga
 301 cttgacaacg gtgcaaaacg aacacgaaaa caatccatac actgtccctc cattaagtga
 361 gagggagtac aggccggcca ctgaaccact tcctggcaca atactggaga tgtgggatgg
 421 tgagttttac cattactccg tgtacgtcag tgatggcaaa gctctggggg tccacaaacc
 481 accggcggct ataagcctcg cgacgataga gctcaccccc atatcactct actggaggcc
 541 cgtttacacc cccaactact tggtctctcc agacacatta aagggcctcg ctggtgagaa
 601 gttcccctac acggccttca gtaataactg ttacaacttc tgctgttggg tgcttgatct
 661 caacgacacg tggcttaata gaagatgcat ttccagaact accggcttct tcaaaccata
 721 ccagtcttgg aatagaaaac ctctcccaac tgttgatgat ggaaagatca aaaaggtggc
 781 caatgcaatc ctctgtgcac tcggttcgct gttttcaaaa ccaatcaaag acctattagg
 841 caaactcaag ccattgaatc tactacactt gctcgcgtcc tgtgattgga cgtttgcagg
 901 catagtggag acagtcatct taatggcgga acttttcaac gtattctgga ccccaccaga
 961 tgtctctaat tttatagcct ccctgatagg tgattttgaa ttgcaagggc ctgaagacct
1021 ggctgtagag ctcgtccccg tggttatggg tggcataggg atggttctcg gcttcaccgc
1081 tgagaagata ggccgcatgc tgtcgtccgc tgcatcaaca ctgcgggcgt gcaaagacct
1141 agggaactac gcccttgaca tactcaaatt ggtcatgaaa tggttcttcc caaagaagga
1201 agagaaggct gagatggaaa ccttgagggc gattgaagat gccgtccttg atatggaagc
1261 tatagggaac aaccacctca cgacccttct caaggacaaa gacagcctca cagctttcat
1321 gaagaccttg gatctagaag aggagaaggc gagaaaactg tccactaaat catcttcacc
1381 ggacatagtc ggcaccatca acgccatatt agctaggata gctgctgcta gatccctact
1441 acataaggcc aaagaggaga tgttcagtag gatcagacca gtggtcgtca tgatctcagg
1501 cagacctggc attggaaaaa cccacatggc gaggcacttg gctaagagca tcgccaatac
```

1561 catgagtggc gatcagagag tcggactcgt tccacgcaac ggtgtcgatc actgggacgc

1621 ctacagggga gagagggtgg tcttgtggga tgactacggc atggggagcc ctgttaaaga

1681 cgccctgaca ctgcaagagt tggccgacac atgtccagtc actttaaatt gtgataggat

1741 tgagaataag ggaaagatgt ttgatagcga tgtcatcata atcacgacca acctagtcaa

1801 ccccgcaccc ctcgactatg tgaacttcga ggcgtgttct aggagagttg acttcctggt

1861 ctatgcagag tcaccagaaa ttgaaaaggt caagagagac ttccctggcc agcctgacat

1921 gtggaaagac cattttaaac cagacttttc ccatattaag ttgactctag ccccccaggg

1981 tgggtttgat aagaatggca ataccccaca cggcaagggt accatgcggt ccttaaccca

2041 ggggtcccta actgcgagag tcgcaggcct tgtccatgag aggagggacg aattccagct

2101 ccaaggaaat gacctccaaa catacaactt tgacaccaac agagtctccg catttagaaa

2161 attggctgca gataacaagt atgggatcat ggagacgatg agagttggtg cagcgctcaa

2221 gagtgtgaag accttggaag atcttaaagc tgcattgagg gatgtgaaat tcaatgagtg

2281 tgaaataatt tacaaaaact ctaagtaccg agtctcttcc aacggcaaag gctcggtttc

2341 tgttgacaaa gttgaagaca atgcttccca gactgtgaac gaggtgcatt cagcacttct

2401 tagactcagg caggcaaggg ccagatacta catcagctgc ttccaagacc tcgtttacac

2461 tctcatgcag gttgcagggg catcattcgt cgtcagtagg atctccagaa ggttctgctg

2521 ggaaaggtgg gtcaaaccga ccgagaccca ggaagtgaat gagcccgaaa aggaagtggc

2581 ccaaggtgga tgggaaattg agcccaagga cacagaacca gaaggcaaga agggcaagaa

2641 caagaaagga aggggcaaga aacacacagc cttctctagc aaaggcctga gtgatgaaga

2701 gtatgatgag ttcaagagaa tcaaggaaga aaggaacgga aagtactcca ttgaggaata

2761 cctgcaggac cgagaccgct attatgaaga ggtggcagtt gctcgggcaa cagaggagga

2821 cttctgcgaa gaggaggaag ccaagataag acaaagaatt ttccgtccga caaggaaaca

2881 gaggaaggag gaaaggggcg tgcttggctt ggtcactggc tcagacatca gaaagaggag

2941 acccgatgac ttccaaccaa agggcaacct gtgggcagat gacaccagaa gtgtggacta

3001 caatgagagg cttgattttg aagcacctcc gagtgtttgg tcaagaatag tcccattagg

3061 cactggttgg gggttttggg tttcatccaa ccttctgatc acaacaacac acgtcctgcc

3121 taaagggatc aaggaactct ttggagttga aatcaagcaa atccaagttc ataagtctgg

3181 agagttttgc aggtttaggt ttccaagacc catcaggcca gatgtcacag gactcgtgtt

3241 ggaggaaggc gccccagagg gcactgtctg ttctgtactc gtaaaaagac ccacaggtga

3301 aatgatcccc cttgcagtga ggatgggcac gcacgcatcc atgaaaatac agggcaggac

3361 cgttggtggc caaatgggga tgctcctcac aggagcaaac gcgaagaaca tggatctcgg

3421 tactggtcct ggtgactgcg gttgccccta catctacaaa cgtggcaacg acatagttgt

3481 cgcgggtgtt cacaccgcag cagcccgggg gggcaacact gttatatgcg ccacccaagg

3541 gcaagacggg gaagcagtcc ttgagggaaa tgaggacctt ggcacctact gtggcgcccc

3601 aattctgggt cctggcaagg cgcccaaact cagcacgaag accaagttct ggcgctcatc

3661 accagatgcc ttgccacctg gcacatacga acctgcttac ctaggaggca aagaccctag

3721 ggtggaaaaa ggtccctccc tgcagcaagt catgagagac cagttgagac ccttcacaga

3781 acccaggggc aaaccgccca gacctgcagt cctagaggaa gccaaaaaga cagtgatgaa

3841 tgttttagaa caaaccattg accccgccaa gccatggtcc tactcccagg catgtgcctc

3901 acttgacaaa accacctcta gtggtagtcc ccaccacgtt aagaaaaatg accactggaa

3961 tggggagtcc ttcactggtc cccttgcaga tcaggcatct aaagccaacc tcatgtatga

4021 acaggccaaa catgtgcagc ccgtgtatac ggcagcgctt aaagatgagc ttgttaagac

4081 tgacaagatc tacaagaaga taaagaagag gctcctatgg gggtcggacc ttggcacaat

4141 gatcaggtgc gccagggctt ttggtggtct catggacagc atgaaggcaa gttgtatagc

4201 tcttccttgc agggtgggaa tgaacatgaa tgaagatggc cccatcatat ttgacaaaca

4261 ctctaagtac aggtaccact atgatgctga ctattctagg tgggactcaa cccaacagag

4321 gagcattctc tctgccgcta tggaagtaat ggtgcggttt tctgctgaac cagaactggc

4381 acaagtggtt gcagaggacc ttttggctcc tagccagctt gacgttggcg actttgtcat

4441 ctcagtccag gagggtctac catcaggagt cccatgcaca tcacaatgga attcaatagc

4501 gcactggatc ctgactttga gtgcaatggc agaagtgtca ggtctctcac cagatgttgt

4561 ccaagctcac tcctgctttt cattttacgg ggacgatgag atcgtcagta ctgatatcaa

4621 tcttgacccc atgaagttga cacagaaact cagggagtat ggtctggtcc ccacccggcc

4681 tgataaaact gaaggccccc tcgttataac tgaagacctc accggcctga cattcctccg

4741 taggtcgatt gctcgggacc cagctggttg gtttggaaaa ctggaccaag actcaattct

4801 cagacagcta tactggacaa gggggcctaa ccatgagaac ccgtatgaga gcatggttcc

4861 tcattctcag cgggccacac agctcatggc ccttcttggt gaggcctcgc tgcatggtcc

4921 ccagttttac aagaaagtta gcaagatggt catcaatgag attaagagcg gtggtctgga

4981 gttttatgtg cccagacaag aggccatgtt caggtggatg agattctctg acctcagcac

5041 atgggagggc gatcgcaatc ttgctcccga aggtgtgaat gaagatggcg tcgaatgacg

5101 cagctccatc taatgatggt gcagcaggcc tcgtgccaga gatcaacaat gaggtcatgc

5161 cccttgagcc cgtggctggt gcatcgctgg cgacaccagt tgtcgggcaa caaaatataa

5221 ttgatccctg gataagaaat aattttgtac aagctcctgc aggtgagttt acagtttccc

5281 ccagaaattc ccctggtgaa attttacttg atttggagtt gggaccagag ttgaacccct

5341 atctcgctca tttggcccgt atgtacaatg ggcacgctgg tggcatggaa gtgcaaattg

5401 tgttggctgg gaacgcgttc acagctggca agatcatatt tgctgccatc cctccagggt

5461 tcccatacga aaatttgtca ccttcacaaa ttacaatgtg ccccccatgtt ataattgatg

5521 ttagacaatt agaaccagtc ctattaccta tgccagatat tagaaataat ttcttccatt

5581 acaatcaggg caatgatcca aaattgaggt tggtagctat gctctacact cctttaaggg

5641 ctaacaattc tggtgatgat gtgttcacag tttcttgtag ggttctcact aaaccgtcac

5701 ctgattttga attcacattt ttggttcccc ctacagttga atccaagacc aagcaattca

5761 cattgcccat cctcaaaata tcagagatga ccaactcaag attcccagtg ccggtggaaa

5821 tgatgtacac agcaaggaat gagaatcaag ttgtccagcc acagaatggt agggtcacac

5881 tcgatggcga actattgggc accacaccct tgttggctgt caacatctgt aaattcaagg

5941 gagaggtcat agctaagaat ggagatgtga gatcctatag gatggacatg gaaatcacca

6001 acactgatgg cacccccaatt gaccccactg aagatacacc tggtcccatt ggatcacctg

6061 attttcaagg tatactcttt ggcgttgcca gtcaacgcaa caagagtgag caaaatcctg

6121 ccacgagagc ccacgaagcc aacatcaata ctggtgggga ccaatatgcc cccaaattgg

6181 cccaagtgaa attcttctca gagtcccagg atttcgaggt gcatcagccc acagttttca

6241 ccccagttgg tgtggcaggt gacccttccc acccctttcag acagtgggtc ctgcctcgat

6301 atggtggaca tctcaccaac aatacccact tggctccagc agtggccccct ctattcccag

6361 gtgagcagat tctgttcttt agatcacaaa tacctagttc aggcggccat gaattgggtt

6421 acatggactg ccttgtccca caagaatggg tccaacactt ctatcaagaa gctgccacag

6481 ctcagtctga ggtggcactc ataaggttca tcaacccaga cactggtaga gtcctctttg

6541 aggccaagct acacaagcaa ggctttataa ctgtggctca cactggtgac aacccaattg

6601 ttatgccacc aaatgggtat ttcagatttg aagcctgggt caatcagttt tactcactcg

6661 cccccgtggg aactgggaat gggcgtagga ggatccaata atggctagtg ccttctttgc

6721 aaatttggca gggggcgttg cctccaatgg aattagttca ctcataaatg ctggggctaa

6781 tgctattaac caaaaggttg agtttgatta taataaacaa ctccaaaatg catccttctc

6841 ccacgataag gaaatgctcc aagcccaaat tgaagccact aaacgcttgc aacaagagat

6901 gattgacata aaacaagggg tgctgacggc tgcgggattc tctcccacgg atgccgcgag

6961 gggttctgtc ggcgcgccaa tgacaaaatt agttgattgg agtggcacta gatattgggc

7021 tcctggtgcc atgaggacaa caggctactc agggaccttc actcacttgc ctcctatgca

7081 atctgcttca tatgttaata atcagaatag acaacttttt aaagtggatc cttctccctc

7141 ttcttcaagt ggttcttctg tttcttctgt taaaacacaa tcaactgctc tctcaggcac

7201 ttcaagggtg gactcttcat ctcagtcaac cctgtcgacc aggccgagct caaggacatc

7261 tgattgggtg cgtagccaaa atgaaagatt gagccccttt atgaatggag cattgcaaac

7321 agcgtatgta acgccaccat ctagcagggc atcaagtgtc agcacagtct cgaccgtgcc

7381 gaaagaggtt ttggactcct ggacgcctat gtttaacact cacaggcagc cgctcttcgc

7441 ccacctgcgt aggcgagggg agtcacagat ttagtgaaaa gattaattag gaaagtttga

```
     7501 ttagttttct tttctattat tcctttaatt tttctttt

//
```