### **GenomeQuest** ™ Variation Landscape Report - [PIUG Ebola LC chain vs my 3CDR db](https://www.genomequestlive.com/resultsumm/index.html#/resbrowse/wf:4197407.resdb/1)

### Variation Landscape

#### Query Sequence ID: LC-Ebola

DIQMTQSPSS LSASVGDTVT ITCRASQSIS NNLAWYQQRP RRAPQLLIYA  
ASNLASGVPS RFSGSGSGTD FTLTISSLQA EDFAAYYCQQ HNTLPLTFGG  
GTKVEI

|  |  |
| --- | --- |
| Black | No variation discovered at that position |
| Green | One variation discovered at that position |
| Orange | 2 to 10 variations discovered at that position |
| Red | Over 10 variations discovered at that position |

### Variation Landscape Summary Table

| **Query position** | **Variation type** | **Description** |
| --- | --- | --- |
| 24 | Replacement | R24K(11), R24Q(354) |
| 25 | Replacement | A25P(4), A25T(2) |
| 26 | Replacement | S26N(16), S26Q(9) |
| 27 | Replacement | Q27E(31), Q27H(5), Q27K(3), Q27P(10), Q27R(11) |
| 28 | Replacement | S28A(76), S28D(517), S28G(2841), S28N(17), S28P(6), S28R(15), S28T(62), S28V(44), S28Y(14) |
| 29 | Replacement | I29L(19), I29M(27), I29S(16), I29V(2707), I29W(1), I29X(10) |
| 30 | Replacement | S30A(32), S30F(43), S30G(186), S30H(4), S30I(24), S30K(64), S30L(6), S30N(127), S30R(111), S30T(19), S30V(10), S30W(1), S30Y(85) |
| 31 | Replacement | N31A(4), N31D(71), N31E(16), N31F(31), N31G(50), N31H(66), N31I(30), N31K(18), N31R(333), N31S(10307), N31T(295), N31V(28), N31Y(79), N31Z(3) |
| 32 | Replacement | N32A(60), N32C(6), N32D(263), N32F(3959), N32G(2), N32H(150), N32I(2), N32L(109), N32Q(92), N32R(79), N32S(340), N32T(14), N32W(5671), N32Y(3378) |
| 33 | Replacement | L33V(52) |
| 34 | Replacement | A34G(11), A34H(828), A34I(5), A34L(14), A34N(977), A34Q(27), A34S(37), A34T(2), A34V(31), A34X(3) |
| 35 | Replacement | W35T(18), W35Z(16) |
| 39 | Replacement | R39K(17) |
| 46 | Replacement | L46A(1), L46P(111), L46R(1), L46S(1), L46T(1) |
| 47 | Replacement | L47A(1), L47K(4), L47W(119) |
| 48 | Replacement | I48A(4), I48L(1), I48S(4), I48V(24) |
| 49 | Replacement | Y49A(18), Y49D(3), Y49F(2), Y49G(8), Y49H(1), Y49I(8), Y49K(1), Y49N(9), Y49P(15), Y49Q(1), Y49S(7), Y49V(4) |
| 50 | Replacement | A50D(186), A50G(483), A50H(3), A50K(78), A50L(68), A50Q(164), A50R(418), A50S(182), A50T(39), A50V(12), A50W(3) |
| 51 | Replacement | A51C(2), A51D(2), A51E(2), A51F(2), A51G(4), A51H(5), A51I(26), A51K(3), A51L(2), A51M(2), A51N(2), A51P(367), A51Q(2), A51R(2), A51S(39), A51T(1828), A51V(8), A51W(2), A51X(1), A51Y(2) |
| 52 | Replacement | S52A(12), S52F(52), S52I(1), S52K(9), S52M(36), S52R(34), S52T(1046) |
| 53 | Replacement | N53D(30), N53F(43), N53G(3), N53I(8), N53K(90), N53L(34), N53P(36), N53R(10), N53S(50), N53T(165), N53Y(9) |
| 54 | Replacement | L54E(3), L54G(3), L54I(3), L54N(3), L54Q(5), L54R(98), L54T(6), L54V(7) |
| 55 | Replacement | A55D(132), A55E(8012), A55G(61), A55H(64), A55I(21), A55K(101), A55P(6), A55Q(1074), A55R(59), A55S(3), A55T(1), A55X(7), A55Y(37) |
| 56 | Replacement | S56A(58), S56C(2), S56D(1358), S56E(17), S56F(141), S56H(2), S56I(17), S56K(19), S56L(5), S56M(2), S56N(25), S56P(26), S56Q(6), S56R(39), S56T(356), S56V(4), S56W(6), S56X(10), S56Y(2) |
| 57 | Replacement | G57A(29), G57I(3), G57P(15), G57S(3), G57V(4), G57X(3) |
| 58 | Replacement | V58I(98), V58N(4), V58R(14) |
| 60 | Replacement | S60A(10), S60V(30) |
| 88 | Replacement | C88Q(1) |
| 89 | Replacement | Q89F(2), Q89H(3), Q89L(83) |
| 91 | Replacement | H91A(141), H91F(17), H91G(5713), H91L(66), H91R(9), H91S(181), H91T(82), H91V(4), H91W(4), H91Y(204) |
| 92 | Replacement | N92D(87), N92E(10), N92F(17), N92H(11), N92K(33), N92S(11), N92Y(131) |
| 93 | Replacement | T93A(9), T93E(401), T93H(12), T93K(15), T93N(135), T93S(84), T93V(4), T93Y(2) |
| 94 | Replacement | L94A(6), L94D(73), L94F(64), L94H(3), L94I(33), L94N(73), L94P(4), L94S(68), L94T(105), L94W(116), L94Y(551) |
| 96 | Replacement | L96A(8), L96F(98), L96H(8), L96I(12), L96P(236), L96R(45), L96W(1174), L96X(3), L96Y(4067) |
| 98 | Replacement | F98T(4) |
| 100 | Replacement | G100S(5) |
| 102 | Replacement | T102C(8) |

### Workflow Information

|  |  |
| --- | --- |
| Title | PIUG Ebola LC chain vs my 3CDR db |
| Description |  |
| Owner and Launch Date | This run is launched by Ellen Sherin at 2020-02-23 09:11:15, and its status is FINISHED, at 2020-02-23 09:30:55. |
| Location | It is located at [[My Data]PIUG Biotech/](https://www.genomequestlive.com/query?do=mygq&new=4197407#4194065). |
| Workflow | IP. Total Nb. of Results: 155675. Storage size: 2.60 GB. (Id: 4197407, [See Log](https://www.genomequestlive.com/query?do=gqworkflow.get_log&workflow=id:4197407)) |
| Query Database | |  |  | | --- | --- | | Protein Databases (1 sequence): | | |  | |  |  |  |  | | --- | --- | --- | --- | | **Database** | **Version** | **Release Date** | **Database Status** | | .query database | 20200223 | 2020-02-23 09:11:16 | Most Recent | |  | | | | | |
| Subject Database | |  | | --- | | No nucleotide database selected. | |  | | |  |  | | --- | --- | | Protein Databases (246,878 sequences): | | |  |  Sequences with length less than 6 or more than 1,000 are not searched. | |  | |  |  |  |  | | --- | --- | --- | --- | | **Database** | **Version** | **Release Date** | **Database Status** | | PIUG LC 3 cdr db | 20200223 | 2020-02-23 09:08:01 | Most Recent | |  | | | | | | |
| Search Strategy | * The search strategy was GenePAST. * This strategy fits the shorter sequence (query or subject) into the longer one, keeping the number of mismatches and gaps to a minimum. * Alignments with less than 65% identity over shorter are discarded. |
| Keep Best Alignments | Best 250000 alignments are kept. |

### Filtering and Grouping

|  |  |
| --- | --- |
| Filter | ( Subject Sequence Length less than 25 AND Diff. Count less than 3 ) AND ( Diff. Count less than 3 ) AND ( Subject Sequence Length less than 25 AND Diff. Count less than 3 AND (( Query Start Position less than 24 AND Query Stop Position greater or equal to 34 ) OR ( Query Start Position less than 50 AND Query Stop Position greater or equal to 55 ) OR ( Query Start Position less than 89 AND Query Stop Position greater or equal to 97 )) ) AND ( Number of Gaps in Query equals 0 AND Number of Gaps in Subject equals 0 ) |
| Variation Filter | You have not selected any variation filter yet |
| Group by | Alignment |
| Query Sequence ID | LC-Ebola |
| Number of Results in this report | 41088 |

This report was generated on 10:08:43 AM, February 23, 2020 EST.

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