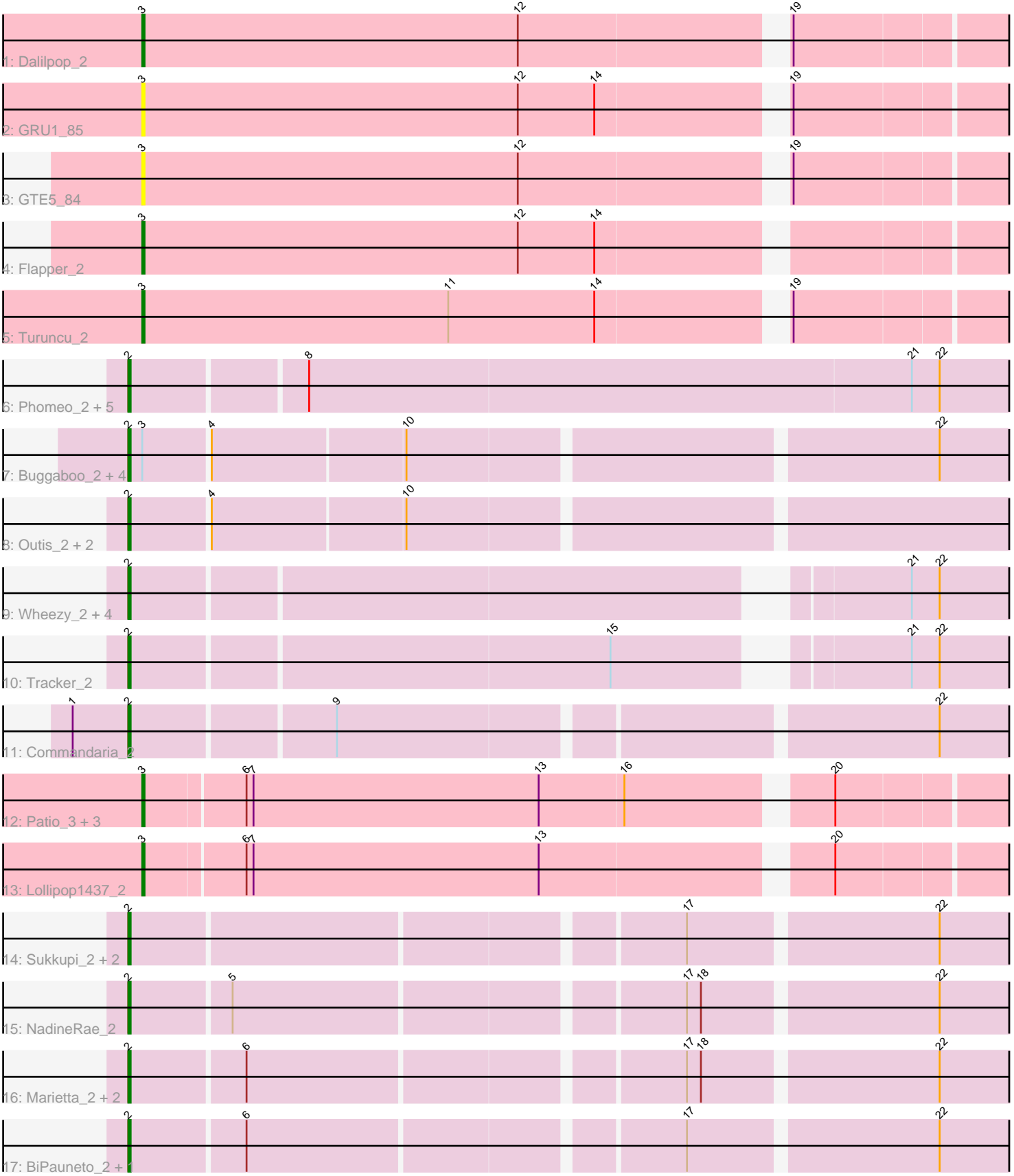


Pham 2202



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 2202 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2202 has 40 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Dalilpop_2
- Track 2 : GRU1_85
- Track 3 : GTE5_84
- Track 4 : Flapper_2
- Track 5 : Turuncu_2
- Track 6 : Phomeo_2, Kurt_2, NatB6_3, Foxboro_2, Emianna_2, Jifall16_2
- Track 7 : Buggaboo_2, Bonum_2, Kabluna_2, NosilaM_2, SuperSulley_2
- Track 8 : Outis_2, StarStruck_2, MerCougar_2
- Track 9 : Wheezy_2, GrootJr_4, Arti_2, NovumRegina_3, KidneyBean_2
- Track 10 : Tracker_2
- Track 11 : Commandaria_2
- Track 12 : Patio_3, Float294_2, Ennea_2, Skysand_2
- Track 13 : Lollipop1437_2
- Track 14 : Sukkupi_2, GTE8_83, Yndexa_2
- Track 15 : NadineRae_2
- Track 16 : Marietta_2, WhoseManz_2, IDyn_3
- Track 17 : BiPauneto_2, HubbaBubba_2

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 2, it was called in 27 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arti_2, BiPauneto_2, Bonum_2, Buggaboo_2, Commandaria_2, Emianna_2, Foxboro_2, GTE8_83, GrootJr_4, HubbaBubba_2, IDyn_3, Jifall16_2, Kabluna_2, KidneyBean_2, Kurt_2, Marietta_2, MerCougar_2, NadineRae_2, NatB6_3, NosilaM_2, NovumRegina_3, Outis_2, Phomeo_2, StarStruck_2, Sukkupi_2, SuperSulley_2, Tracker_2, Wheezy_2, WhoseManz_2, Yndexa_2,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- Dalilpop_2, Ennea_2, Flapper_2, Float294_2, GRU1_85, GTE5_84, Lollipop1437_2, Patio_3, Skysand_2, Turuncu_2,

Summary by start number:

Start 2:

- Found in 30 of 40 (75.0%) of genes in pham
- Manual Annotations of this start: 27 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arti_2 (CR2), BiPauneto_2 (CR4), Bonum_2 (CR2), Buggaboo_2 (CR2), Commandaria_2 (CR2), Emianna_2 (CR2), Foxboro_2 (CR2), GTE8_83 (CR2), GrootJr_4 (CR2), HubbaBubba_2 (CR4), IDyn_3 (CR4), Jifall16_2 (CR2), Kabluna_2 (CR2), KidneyBean_2 (CR2), Kurt_2 (CR2), Marietta_2 (CR4), MerCougar_2 (CR2), NadineRae_2 (CR4), NatB6_3 (CR2), NosilaM_2 (CR2), NovumRegina_3 (CR2), Outis_2 (CR2), Phomeo_2 (CR2), StarStruck_2 (CR2), Sukkupi_2 (CR4), SuperSulley_2 (CR2), Tracker_2 (CR2), Wheezy_2 (CR2), WhoseManz_2 (CR4), Yndexa_2 (CR4),

Start 3:

- Found in 15 of 40 (37.5%) of genes in pham
- Manual Annotations of this start: 8 of 35
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Dalilpop_2 (CR1), Ennea_2 (CR3), Flapper_2 (CR1), Float294_2 (CR3), GRU1_85 (CR1), GTE5_84 (CR1), Lollipop1437_2 (CR3), Patio_3 (CR3), Skysand_2 (CR3), Turuncu_2 (CR1),

Summary by clusters:

There are 4 clusters represented in this pham: CR2, CR3, CR1, CR4,

Info for manual annotations of cluster CR1:

- Start number 3 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 2 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 3 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 2 was manually annotated 7 times for cluster CR4.

Gene Information:

Gene: Arti_2 Start: 1319, Stop: 1720, Start Num: 2

Candidate Starts for Arti_2:

(Start: 2 @1319 has 27 MA's), (21, 1625), (22, 1637),

Gene: BiPauneto_2 Start: 1350, Stop: 1769, Start Num: 2

Candidate Starts for BiPauneto_2:

(Start: 2 @1350 has 27 MA's), (6, 1398), (17, 1575), (22, 1677),

Gene: Bonum_2 Start: 1420, Stop: 1839, Start Num: 2
Candidate Starts for Bonum_2:
(Start: 2 @1420 has 27 MA's), (Start: 3 @1426 has 8 MA's), (4, 1453), (10, 1534), (22, 1750),

Gene: Buggaboo_2 Start: 1449, Stop: 1862, Start Num: 2
Candidate Starts for Buggaboo_2:
(Start: 2 @1449 has 27 MA's), (Start: 3 @1455 has 8 MA's), (4, 1482), (10, 1563), (22, 1779),

Gene: Commandaria_2 Start: 1327, Stop: 1734, Start Num: 2
Candidate Starts for Commandaria_2:
(1, 1303), (Start: 2 @1327 has 27 MA's), (9, 1411), (22, 1654),

Gene: Dalilpop_2 Start: 1338, Stop: 1748, Start Num: 3
Candidate Starts for Dalilpop_2:
(Start: 3 @1338 has 8 MA's), (12, 1500), (19, 1605),

Gene: Emianna_2 Start: 1304, Stop: 1729, Start Num: 2
Candidate Starts for Emianna_2:
(Start: 2 @1304 has 27 MA's), (8, 1376), (21, 1634), (22, 1646),

Gene: Ennea_2 Start: 1354, Stop: 1761, Start Num: 3
Candidate Starts for Ennea_2:
(Start: 3 @1354 has 8 MA's), (6, 1396), (7, 1399), (13, 1522), (16, 1558), (20, 1636),

Gene: Flapper_2 Start: 1341, Stop: 1751, Start Num: 3
Candidate Starts for Flapper_2:
(Start: 3 @1341 has 8 MA's), (12, 1503), (14, 1536),

Gene: Float294_2 Start: 1343, Stop: 1750, Start Num: 3
Candidate Starts for Float294_2:
(Start: 3 @1343 has 8 MA's), (6, 1385), (7, 1388), (13, 1511), (16, 1547), (20, 1625),

Gene: Foxboro_2 Start: 1304, Stop: 1729, Start Num: 2
Candidate Starts for Foxboro_2:
(Start: 2 @1304 has 27 MA's), (8, 1376), (21, 1634), (22, 1646),

Gene: GRU1_85 Start: 60407, Stop: 60817, Start Num: 3
Candidate Starts for GRU1_85:
(Start: 3 @60407 has 8 MA's), (12, 60569), (14, 60602), (19, 60674),

Gene: GTE5_84 Start: 61428, Stop: 61838, Start Num: 3
Candidate Starts for GTE5_84:
(Start: 3 @61428 has 8 MA's), (12, 61590), (19, 61695),

Gene: GTE8_83 Start: 61537, Stop: 61938, Start Num: 2
Candidate Starts for GTE8_83:
(Start: 2 @61537 has 27 MA's), (17, 61774), (22, 61855),

Gene: GrootJr_4 Start: 1920, Stop: 2321, Start Num: 2
Candidate Starts for GrootJr_4:
(Start: 2 @1920 has 27 MA's), (21, 2226), (22, 2238),

Gene: HubbaBubba_2 Start: 1348, Stop: 1764, Start Num: 2

Candidate Starts for HubbaBubba_2:

(Start: 2 @1348 has 27 MA's), (6, 1396), (17, 1573), (22, 1675),

Gene: IDyn_3 Start: 1972, Stop: 2391, Start Num: 2

Candidate Starts for IDyn_3:

(Start: 2 @1972 has 27 MA's), (6, 2020), (17, 2197), (18, 2203), (22, 2299),

Gene: Jifall16_2 Start: 1304, Stop: 1729, Start Num: 2

Candidate Starts for Jifall16_2:

(Start: 2 @1304 has 27 MA's), (8, 1376), (21, 1634), (22, 1646),

Gene: Kabluna_2 Start: 1420, Stop: 1839, Start Num: 2

Candidate Starts for Kabluna_2:

(Start: 2 @1420 has 27 MA's), (Start: 3 @1426 has 8 MA's), (4, 1453), (10, 1534), (22, 1750),

Gene: KidneyBean_2 Start: 1319, Stop: 1720, Start Num: 2

Candidate Starts for KidneyBean_2:

(Start: 2 @1319 has 27 MA's), (21, 1625), (22, 1637),

Gene: Kurt_2 Start: 1304, Stop: 1729, Start Num: 2

Candidate Starts for Kurt_2:

(Start: 2 @1304 has 27 MA's), (8, 1376), (21, 1634), (22, 1646),

Gene: Lollipop1437_2 Start: 1342, Stop: 1749, Start Num: 3

Candidate Starts for Lollipop1437_2:

(Start: 3 @1342 has 8 MA's), (6, 1384), (7, 1387), (13, 1510), (20, 1624),

Gene: Marietta_2 Start: 1348, Stop: 1767, Start Num: 2

Candidate Starts for Marietta_2:

(Start: 2 @1348 has 27 MA's), (6, 1396), (17, 1573), (18, 1579), (22, 1675),

Gene: MerCougar_2 Start: 1449, Stop: 1868, Start Num: 2

Candidate Starts for MerCougar_2:

(Start: 2 @1449 has 27 MA's), (4, 1482), (10, 1563),

Gene: NadineRae_2 Start: 1349, Stop: 1768, Start Num: 2

Candidate Starts for NadineRae_2:

(Start: 2 @1349 has 27 MA's), (5, 1391), (17, 1574), (18, 1580), (22, 1676),

Gene: NatB6_3 Start: 1919, Stop: 2344, Start Num: 2

Candidate Starts for NatB6_3:

(Start: 2 @1919 has 27 MA's), (8, 1991), (21, 2249), (22, 2261),

Gene: NosilaM_2 Start: 1462, Stop: 1881, Start Num: 2

Candidate Starts for NosilaM_2:

(Start: 2 @1462 has 27 MA's), (Start: 3 @1468 has 8 MA's), (4, 1495), (10, 1576), (22, 1792),

Gene: NovumRegina_3 Start: 1920, Stop: 2321, Start Num: 2

Candidate Starts for NovumRegina_3:

(Start: 2 @1920 has 27 MA's), (21, 2226), (22, 2238),

Gene: Outis_2 Start: 1449, Stop: 1868, Start Num: 2

Candidate Starts for Outis_2:

(Start: 2 @1449 has 27 MA's), (4, 1482), (10, 1563),

Gene: Patio_3 Start: 2025, Stop: 2432, Start Num: 3

Candidate Starts for Patio_3:

(Start: 3 @2025 has 8 MA's), (6, 2067), (7, 2070), (13, 2193), (16, 2229), (20, 2307),

Gene: Phomeo_2 Start: 1304, Stop: 1729, Start Num: 2

Candidate Starts for Phomeo_2:

(Start: 2 @1304 has 27 MA's), (8, 1376), (21, 1634), (22, 1646),

Gene: Skysand_2 Start: 1342, Stop: 1749, Start Num: 3

Candidate Starts for Skysand_2:

(Start: 3 @1342 has 8 MA's), (6, 1384), (7, 1387), (13, 1510), (16, 1546), (20, 1624),

Gene: StarStruck_2 Start: 1449, Stop: 1868, Start Num: 2

Candidate Starts for StarStruck_2:

(Start: 2 @1449 has 27 MA's), (4, 1482), (10, 1563),

Gene: Sukkupi_2 Start: 1349, Stop: 1768, Start Num: 2

Candidate Starts for Sukkupi_2:

(Start: 2 @1349 has 27 MA's), (17, 1574), (22, 1676),

Gene: SuperSulley_2 Start: 1449, Stop: 1862, Start Num: 2

Candidate Starts for SuperSulley_2:

(Start: 2 @1449 has 27 MA's), (Start: 3 @1455 has 8 MA's), (4, 1482), (10, 1563), (22, 1779),

Gene: Tracker_2 Start: 1291, Stop: 1692, Start Num: 2

Candidate Starts for Tracker_2:

(Start: 2 @1291 has 27 MA's), (15, 1492), (21, 1597), (22, 1609),

Gene: Turuncu_2 Start: 1342, Stop: 1752, Start Num: 3

Candidate Starts for Turuncu_2:

(Start: 3 @1342 has 8 MA's), (11, 1474), (14, 1537), (19, 1609),

Gene: Wheezy_2 Start: 1319, Stop: 1720, Start Num: 2

Candidate Starts for Wheezy_2:

(Start: 2 @1319 has 27 MA's), (21, 1625), (22, 1637),

Gene: WhoseManz_2 Start: 1349, Stop: 1768, Start Num: 2

Candidate Starts for WhoseManz_2:

(Start: 2 @1349 has 27 MA's), (6, 1397), (17, 1574), (18, 1580), (22, 1676),

Gene: Yndexa_2 Start: 1349, Stop: 1768, Start Num: 2

Candidate Starts for Yndexa_2:

(Start: 2 @1349 has 27 MA's), (17, 1574), (22, 1676),