

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 203258 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203258 has 24 members, 4 are drafts.

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Phages represented in each track:
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Track 1 : Mendel_6, Tillums_7
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• Track 2 : Anjali 5

Track 3 : Goodgraces_5, Dunamis_6

Track 4 : Swim 7

Track 5 : Seldom 5

• Track 6 : Curie_1

• Track 7 : PineapplePizza 3

Track 8 : Evcara 1

• Track 9 : Smelly_1

Track 10 : Squall_1, Fairywren_1

Track 11: Mimi16 1, Ellison17 1, Prophecy 1, Momos 1, Grotle 1

Track 12 : Brave 1

Track 13 : Trapezoid_1Track 14 : Penne_1

Track 15 : Mantle 1

Track 16: Transit 1

• Track 17 : Thatch 1

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

The start number called the most often in the published annotations is 17, it was called in 8 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

 Anjali_5, Brave_1, Fairywren_1, Mendel_6, Penne_1, Seldom_5, Squall_1, Swim_7, Tillums 7,

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

Dunamis_6, Goodgraces_5, Trapezoid_1,

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

• Curie_1, Ellison17_1, Evcara_1, Grotle_1, Mantle_1, Mimi16_1, Momos_1, PineapplePizza_3, Prophecy_1, Smelly_1, Thatch_1, Transit_1,

Summary by start number:

Start 4:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Curie_1 (GI),

Start 5:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PineapplePizza_3 (GI),

Start 6:

- Found in 3 of 24 (12.5%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mantle_1 (JC), Thatch_1 (JC), Transit_1 (JC),

Start 8:

- Found in 5 of 24 (20.8%) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ellison17_1 (JB), Grotle_1 (JB), Mimi16_1 (JB), Momos_1 (JB), Prophecy_1 (JB),

Start 9:

- Found in 7 of 24 (29.2%) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Dunamis 6 (FD), Goodgraces 5 (FD),

Start 14:

- Found in 2 of 24 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Trapezoid 1 (JB),

Start 15:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Evcara_1 (GI),

Start 17:

- Found in 12 of 24 (50.0%) of genes in pham
- Manual Annotations of this start: 8 of 20
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Anjali_5 (FD), Brave_1 (JB),
 Fairywren_1 (JB), Mendel_6 (FD), Penne_1 (JB), Seldom_5 (FD), Squall_1 (JB),
 Swim 7 (FD), Tillums 7 (FD),

Start 18:

- Found in 1 of 24 (4.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Smelly_1 (GK),

Summary by clusters:

There are 5 clusters represented in this pham: GK, FD, GI, JB, JC,

Info for manual annotations of cluster FD:

•Start number 17 was manually annotated 4 times for cluster FD.

Info for manual annotations of cluster GI:

- •Start number 4 was manually annotated 1 time for cluster GI.
- •Start number 5 was manually annotated 1 time for cluster GI.
- •Start number 15 was manually annotated 1 time for cluster GI.

Info for manual annotations of cluster JB:

- •Start number 8 was manually annotated 5 times for cluster JB.
- •Start number 14 was manually annotated 1 time for cluster JB.
- •Start number 17 was manually annotated 4 times for cluster JB.

Info for manual annotations of cluster JC:

•Start number 6 was manually annotated 3 times for cluster JC.

Gene Information:

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Gene: Anjali 5 Start: 1483, Stop: 1953, Start Num: 17
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Candidate Starts for Anjali 5:

(9, 1438), (Start: 17 @1483 has 8 MA's), (22, 1600), (25, 1642), (33, 1720), (42, 1810),

Gene: Brave_1 Start: 695, Stop: 1147, Start Num: 17

Candidate Starts for Brave 1:

(Start: 17 @695 has 8 MA's), (21, 800), (33, 923), (45, 1028), (46, 1037), (50, 1091),

Gene: Curie 1 Start: 421, Stop: 978, Start Num: 4

Candidate Starts for Curie 1:

(3, 409), (Start: 4 @ 421 has 1 MA's), (7, 454), (19, 547), (26, 658), (37, 757), (48, 859), (49, 898),

Gene: Dunamis_6 Start: 1455, Stop: 1967, Start Num: 9

Candidate Starts for Dunamis_6:

(9, 1455), (Start: 17 @1500 has 8 MA's), (25, 1659), (34, 1740), (42, 1827), (50, 1905),

Gene: Ellison17 1 Start: 497, Stop: 1048, Start Num: 8

Candidate Starts for Ellison17 1:

(Start: 8 @ 497 has 5 MA's), (29, 764), (36, 803), (39, 815), (47, 905), (50, 950),

Gene: Evcara_1 Start: 485, Stop: 967, Start Num: 15

Candidate Starts for Evcara 1:

(13, 479), (Start: 15 @485 has 1 MA's), (19, 539), (24, 617), (26, 650), (30, 707), (32, 719), (34, 728), (44, 824), (45, 830), (55, 938), (56, 944), (57, 947),

Gene: Fairywren_1 Start: 664, Stop: 1116, Start Num: 17

Candidate Starts for Fairywren 1:

(1, 478), (Start: 17 @664 has 8 MA's), (21, 769), (30, 874), (33, 892), (45, 997), (46, 1006), (50, 1060), (54, 1099),

Gene: Goodgraces_5 Start: 1678, Stop: 2190, Start Num: 9

Candidate Starts for Goodgraces 5:

(9, 1678), (Start: 17 @1723 has 8 MA's), (25, 1882), (34, 1963), (42, 2050), (50, 2128),

Gene: Grotle_1 Start: 456, Stop: 1007, Start Num: 8

Candidate Starts for Grotle_1:

(Start: 8 @ 456 has 5 MA's), (29, 723), (36, 762), (39, 774), (47, 864), (50, 909),

Gene: Mantle_1 Start: 837, Stop: 1343, Start Num: 6

Candidate Starts for Mantle 1:

(Start: 6 @837 has 3 MA's), (12, 867), (16, 894), (19, 951), (23, 1008), (27, 1077), (52, 1311),

Gene: Mendel_6 Start: 1407, Stop: 1874, Start Num: 17

Candidate Starts for Mendel 6:

(9, 1362), (Start: 17 @ 1407 has 8 MA's), (25, 1566), (34, 1647), (42, 1734), (50, 1812),

Gene: Mimi16_1 Start: 507, Stop: 1058, Start Num: 8

Candidate Starts for Mimi16_1:

(Start: 8 @507 has 5 MA's), (29, 774), (36, 813), (39, 825), (47, 915), (50, 960),

Gene: Momos_1 Start: 497, Stop: 1048, Start Num: 8

Candidate Starts for Momos_1:

(Start: 8 @ 497 has 5 MA's), (29, 764), (36, 803), (39, 815), (47, 905), (50, 950),

Gene: Penne 1 Start: 698, Stop: 1150, Start Num: 17

Candidate Starts for Penne_1:

(Start: 17 @698 has 8 MA's), (21, 803), (30, 908), (33, 926), (45, 1031), (46, 1040), (50, 1094), (54, 1133),

Gene: PineapplePizza_3 Start: 1180, Stop: 1725, Start Num: 5

Candidate Starts for PineapplePizza_3:

(2, 1147), (Start: 5 @1180 has 1 MA's), (10, 1213), (19, 1294), (26, 1405), (28, 1438), (33, 1480), (38, 1510), (43, 1573),

Gene: Prophecy_1 Start: 507, Stop: 1058, Start Num: 8

Candidate Starts for Prophecy 1:

(Start: 8 @ 507 has 5 MA's), (29, 774), (36, 813), (39, 825), (47, 915), (50, 960),

Gene: Seldom_5 Start: 1986, Stop: 2456, Start Num: 17

Candidate Starts for Seldom_5:

(9, 1941), (Start: 17 @1986 has 8 MA's), (25, 2142), (42, 2310), (45, 2325), (50, 2388),

Gene: Smelly 1 Start: 419, Stop: 832, Start Num: 18

Candidate Starts for Smelly_1:

(11, 374), (Start: 14 @ 395 has 1 MA's), (18, 419), (29, 587), (32, 602), (42, 701), (51, 779), (53, 812),

Gene: Squall_1 Start: 665, Stop: 1117, Start Num: 17

Candidate Starts for Squall_1:

(1, 479), (Start: 17 @665 has 8 MA's), (21, 770), (30, 875), (33, 893), (45, 998), (46, 1007), (50, 1061), (54, 1100),

Gene: Swim_7 Start: 1879, Stop: 2349, Start Num: 17

Candidate Starts for Swim_7:

(9, 1834), (Start: 17 @1879 has 8 MA's), (25, 2038), (34, 2119), (42, 2206),

Gene: Thatch_1 Start: 729, Stop: 1232, Start Num: 6

Candidate Starts for Thatch_1:

(Start: 6 @729 has 3 MA's), (20, 843), (23, 897), (27, 966), (31, 1005), (35, 1029), (52, 1200),

Gene: Tillums_7 Start: 1944, Stop: 2411, Start Num: 17

Candidate Starts for Tillums 7:

(9, 1899), (Start: 17 @ 1944 has 8 MA's), (25, 2103), (34, 2184), (42, 2271), (50, 2349),

Gene: Transit_1 Start: 735, Stop: 1238, Start Num: 6

Candidate Starts for Transit_1:

(Start: 6 @735 has 3 MA's), (19, 846), (23, 903), (27, 972), (31, 1011), (52, 1206),

Gene: Trapezoid_1 Start: 572, Stop: 1048, Start Num: 14

Candidate Starts for Trapezoid_1:

(Start: 14 @572 has 1 MA's), (Start: 17 @587 has 8 MA's), (21, 701), (33, 824), (40, 869), (41, 875), (45, 929), (54, 1031),