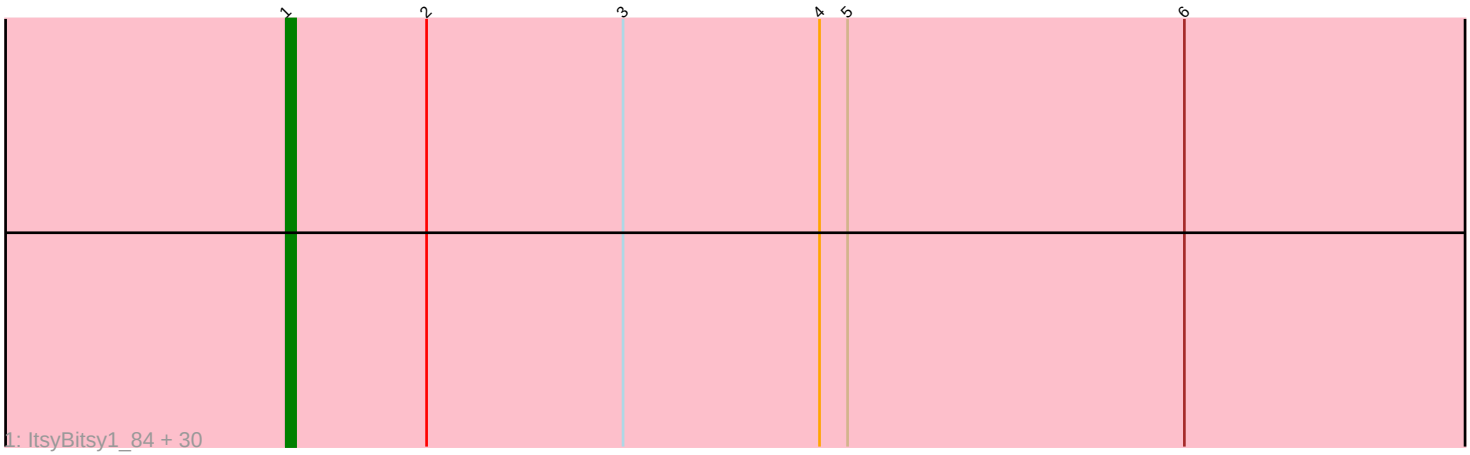
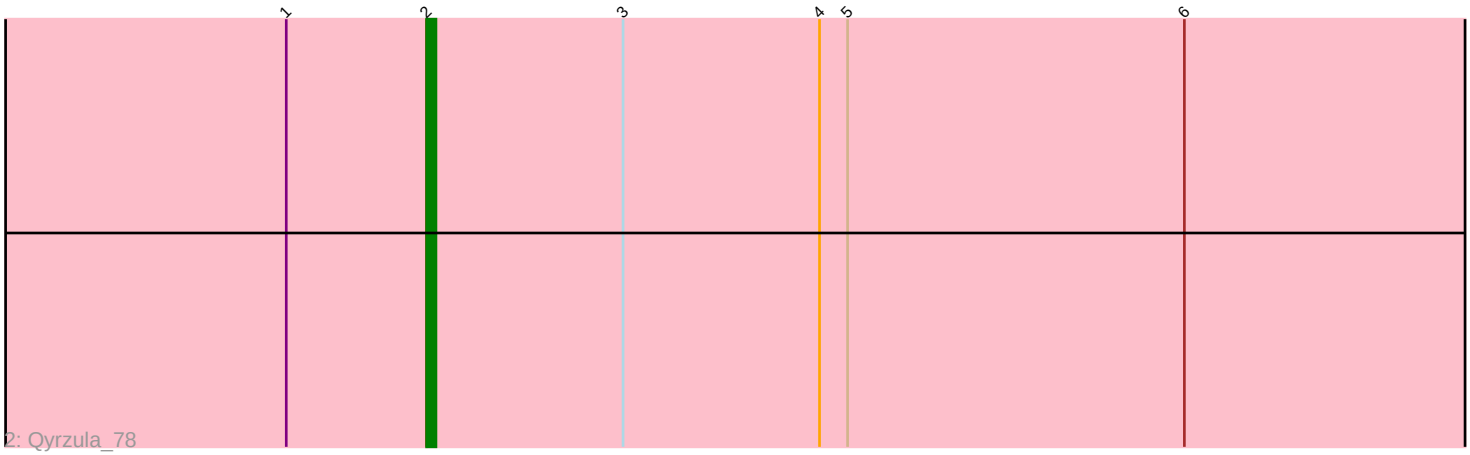
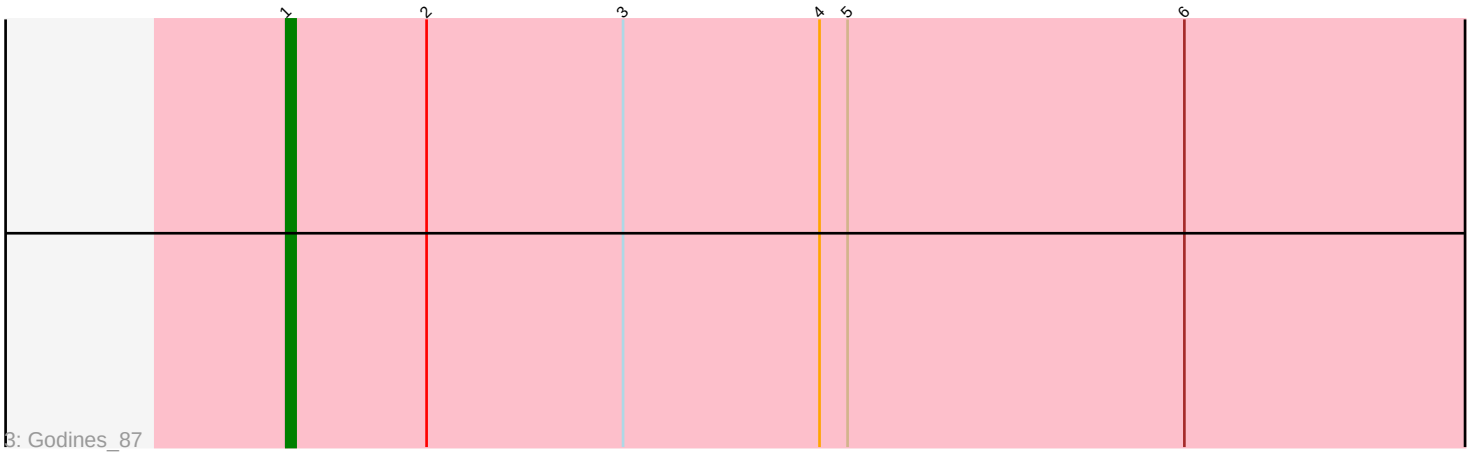
# Pham 86116


1
2
3
4
5
6
1: ItsyBitsy1_84 + 30


1
2
3
4
5
6
2: Qyrzula_78


1
2
3
4
5
6
3: Godines_87

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 86116 Report

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

Pham number 86116 has 33 members, 2 are drafts.

Phages represented in each track:
• Track 1 : ItsyBitsy1_84, West99_87, Arbiter_84, Bananafish_88, LizLemon_87, Glass_89, FrenchFry_88, TA17A_88, Allegro_87, Kaleb_87, Boyle_87, Brownie5_87, Ares_87, Calamitous_88, Eaglehorse_88, Faze9_86, Tres_87, Kheth_87, Coffee_86, MasterPo_88, Sabella_87, Tinciduntsolum_88, Laurie_86, Rhinoforte_87, Lars_88, Opia_88, Phantasmagoria_86, Blocker23_87, Rosebush_85, Hedgerow_87, Lephleur_87
• Track 2 : Qyrzula_78
• Track 3 : Godines_87

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

The start number called the most often in the published annotations is 1, it was called in 30 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Allegro_87, Arbiter_84, Ares_87, Bananafish_88, Blocker23_87, Boyle_87, Brownie5_87, Calamitous_88, Coffee_86, Eaglehorse_88, Faze9_86, FrenchFry_88, Glass_89, Godines_87, Hedgerow_87, ItsyBitsy1_84, Kaleb_87, Kheth_87, Lars_88, Laurie_86, Lephleur_87, LizLemon_87, MasterPo_88, Opia_88, Phantasmagoria_86, Rhinoforte_87, Rosebush_85, Sabella_87, TA17A_88, Tinciduntsolum_88, Tres_87, West99_87,

Genes that have the "Most Annotated" start but do not call it:
• Qyrzula_78,

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

**Summary by start number:**

Start 1:
• Found in 33 of 33 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 30 of 31
• Called 97.0% of time when present

• Phage (with cluster) where this start called: Allegro_87 (B2), Arbiter_84 (B2), Ares_87 (B2), Bananafish_88 (B2), Blocker23_87 (B2), Boyle_87 (B2), Brownie5_87 (B2), Calamitous_88 (B2), Coffee_86 (B2), Eaglehorse_88 (B2), Faze9_86 (B2), FrenchFry_88 (B2), Glass_89 (B2), Godines_87 (B2), Hedgerow_87 (B2), ItsyBitsy1_84 (B2), Kaleb_87 (B2), Kheth_87 (B2), Lars_88 (B2), Laurie_86 (B2), Lephleur_87 (B2), LizLemon_87 (B2), MasterPo_88 (B2), Opia_88 (B2), Phantasmagoria_86 (B2), Rhinoforte_87 (B2), Rosebush_85 (B2), Sabella_87 (B2), TA17A_88 (B2), Tinciduntsolum_88 (B2), Tres_87 (B2), West99_87 (B2),

Start 2:
• Found in 33 of 33 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 3.0% of time when present
• Phage (with cluster) where this start called: Qyrzula_78 (B2),

**Summary by clusters:**

There is one cluster represented in this pham: B2

Info for manual annotations of cluster B2:
•Start number 1 was manually annotated 30 times for cluster B2.
•Start number 2 was manually annotated 1 time for cluster B2.

***Gene Information:***

Gene: Allegro_87 Start: 65408, Stop: 65262, Start Num: 1
Candidate Starts for Allegro_87:
(Start: 1 @65408 has 30 MA's), (Start: 2 @65393 has 1 MA's), (3, 65372), (4, 65351), (5, 65348), (6, 65312),

Gene: Arbiter_84 Start: 65449, Stop: 65303, Start Num: 1
Candidate Starts for Arbiter_84:
(Start: 1 @65449 has 30 MA's), (Start: 2 @65434 has 1 MA's), (3, 65413), (4, 65392), (5, 65389), (6, 65353),

Gene: Ares_87 Start: 65408, Stop: 65262, Start Num: 1
Candidate Starts for Ares_87:
(Start: 1 @65408 has 30 MA's), (Start: 2 @65393 has 1 MA's), (3, 65372), (4, 65351), (5, 65348), (6, 65312),

Gene: Bananafish_88 Start: 65345, Stop: 65199, Start Num: 1
Candidate Starts for Bananafish_88:
(Start: 1 @65345 has 30 MA's), (Start: 2 @65330 has 1 MA's), (3, 65309), (4, 65288), (5, 65285), (6, 65249),

Gene: Blocker23_87 Start: 65410, Stop: 65264, Start Num: 1
Candidate Starts for Blocker23_87:
(Start: 1 @65410 has 30 MA's), (Start: 2 @65395 has 1 MA's), (3, 65374), (4, 65353), (5, 65350), (6, 65314),

Gene: Boyle_87 Start: 65457, Stop: 65311, Start Num: 1

Candidate Starts for Boyle_87:
(Start: 1 @65457 has 30 MA's), (Start: 2 @65442 has 1 MA's), (3, 65421), (4, 65400), (5, 65397), (6, 65361),

Gene: Brownie5_87 Start: 65457, Stop: 65311, Start Num: 1
Candidate Starts for Brownie5_87:
(Start: 1 @65457 has 30 MA's), (Start: 2 @65442 has 1 MA's), (3, 65421), (4, 65400), (5, 65397), (6, 65361),

Gene: Calamitous_88 Start: 65340, Stop: 65194, Start Num: 1
Candidate Starts for Calamitous_88:
(Start: 1 @65340 has 30 MA's), (Start: 2 @65325 has 1 MA's), (3, 65304), (4, 65283), (5, 65280), (6, 65244),

Gene: Coffee_86 Start: 65450, Stop: 65304, Start Num: 1
Candidate Starts for Coffee_86:
(Start: 1 @65450 has 30 MA's), (Start: 2 @65435 has 1 MA's), (3, 65414), (4, 65393), (5, 65390), (6, 65354),

Gene: Eaglehorse_88 Start: 65335, Stop: 65189, Start Num: 1
Candidate Starts for Eaglehorse_88:
(Start: 1 @65335 has 30 MA's), (Start: 2 @65320 has 1 MA's), (3, 65299), (4, 65278), (5, 65275), (6, 65239),

Gene: Faze9_86 Start: 65472, Stop: 65326, Start Num: 1
Candidate Starts for Faze9_86:
(Start: 1 @65472 has 30 MA's), (Start: 2 @65457 has 1 MA's), (3, 65436), (4, 65415), (5, 65412), (6, 65376),

Gene: FrenchFry_88 Start: 65460, Stop: 65314, Start Num: 1
Candidate Starts for FrenchFry_88:
(Start: 1 @65460 has 30 MA's), (Start: 2 @65445 has 1 MA's), (3, 65424), (4, 65403), (5, 65400), (6, 65364),

Gene: Glass_89 Start: 65466, Stop: 65320, Start Num: 1
Candidate Starts for Glass_89:
(Start: 1 @65466 has 30 MA's), (Start: 2 @65451 has 1 MA's), (3, 65430), (4, 65409), (5, 65406), (6, 65370),

Gene: Godines_87 Start: 65371, Stop: 65225, Start Num: 1
Candidate Starts for Godines_87:
(Start: 1 @65371 has 30 MA's), (Start: 2 @65356 has 1 MA's), (3, 65335), (4, 65314), (5, 65311), (6, 65275),

Gene: Hedgerow_87 Start: 65423, Stop: 65277, Start Num: 1
Candidate Starts for Hedgerow_87:
(Start: 1 @65423 has 30 MA's), (Start: 2 @65408 has 1 MA's), (3, 65387), (4, 65366), (5, 65363), (6, 65327),

Gene: ItsyBitsy1_84 Start: 65539, Stop: 65393, Start Num: 1
Candidate Starts for ItsyBitsy1_84:
(Start: 1 @65539 has 30 MA's), (Start: 2 @65524 has 1 MA's), (3, 65503), (4, 65482), (5, 65479), (6, 65443),

Gene: Kaleb_87 Start: 65469, Stop: 65323, Start Num: 1
Candidate Starts for Kaleb_87:
(Start: 1 @65469 has 30 MA's), (Start: 2 @65454 has 1 MA's), (3, 65433), (4, 65412), (5, 65409), (6, 65373),

Gene: Kheth_87 Start: 65375, Stop: 65229, Start Num: 1
Candidate Starts for Kheth_87:
(Start: 1 @65375 has 30 MA's), (Start: 2 @65360 has 1 MA's), (3, 65339), (4, 65318), (5, 65315), (6, 65279),

Gene: Lars_88 Start: 65437, Stop: 65291, Start Num: 1
Candidate Starts for Lars_88:
(Start: 1 @65437 has 30 MA's), (Start: 2 @65422 has 1 MA's), (3, 65401), (4, 65380), (5, 65377), (6, 65341),

Gene: Laurie_86 Start: 64784, Stop: 64638, Start Num: 1
Candidate Starts for Laurie_86:
(Start: 1 @64784 has 30 MA's), (Start: 2 @64769 has 1 MA's), (3, 64748), (4, 64727), (5, 64724), (6, 64688),

Gene: Lephleur_87 Start: 65294, Stop: 65148, Start Num: 1
Candidate Starts for Lephleur_87:
(Start: 1 @65294 has 30 MA's), (Start: 2 @65279 has 1 MA's), (3, 65258), (4, 65237), (5, 65234), (6, 65198),

Gene: LizLemon_87 Start: 65465, Stop: 65319, Start Num: 1
Candidate Starts for LizLemon_87:
(Start: 1 @65465 has 30 MA's), (Start: 2 @65450 has 1 MA's), (3, 65429), (4, 65408), (5, 65405), (6, 65369),

Gene: MasterPo_88 Start: 65333, Stop: 65187, Start Num: 1
Candidate Starts for MasterPo_88:
(Start: 1 @65333 has 30 MA's), (Start: 2 @65318 has 1 MA's), (3, 65297), (4, 65276), (5, 65273), (6, 65237),

Gene: Opia_88 Start: 65358, Stop: 65212, Start Num: 1
Candidate Starts for Opia_88:
(Start: 1 @65358 has 30 MA's), (Start: 2 @65343 has 1 MA's), (3, 65322), (4, 65301), (5, 65298), (6, 65262),

Gene: Phantasmagoria_86 Start: 65341, Stop: 65195, Start Num: 1
Candidate Starts for Phantasmagoria_86:
(Start: 1 @65341 has 30 MA's), (Start: 2 @65326 has 1 MA's), (3, 65305), (4, 65284), (5, 65281), (6, 65245),

Gene: Qyrzula_78 Start: 65465, Stop: 65334, Start Num: 2
Candidate Starts for Qyrzula_78:
(Start: 1 @65480 has 30 MA's), (Start: 2 @65465 has 1 MA's), (3, 65444), (4, 65423), (5, 65420), (6, 65384),

Gene: Rhinoforte_87 Start: 65377, Stop: 65231, Start Num: 1
Candidate Starts for Rhinoforte_87:

(Start: 1 @65377 has 30 MA's), (Start: 2 @65362 has 1 MA's), (3, 65341), (4, 65320), (5, 65317), (6, 65281),

Gene: Rosebush_85 Start: 65449, Stop: 65303, Start Num: 1
Candidate Starts for Rosebush_85:
(Start: 1 @65449 has 30 MA's), (Start: 2 @65434 has 1 MA's), (3, 65413), (4, 65392), (5, 65389), (6, 65353),

Gene: Sabella_87 Start: 65285, Stop: 65139, Start Num: 1
Candidate Starts for Sabella_87:
(Start: 1 @65285 has 30 MA's), (Start: 2 @65270 has 1 MA's), (3, 65249), (4, 65228), (5, 65225), (6, 65189),

Gene: TA17A_88 Start: 65292, Stop: 65146, Start Num: 1
Candidate Starts for TA17A_88:
(Start: 1 @65292 has 30 MA's), (Start: 2 @65277 has 1 MA's), (3, 65256), (4, 65235), (5, 65232), (6, 65196),

Gene: Tinciduntsolum_88 Start: 65456, Stop: 65310, Start Num: 1
Candidate Starts for Tinciduntsolum_88:
(Start: 1 @65456 has 30 MA's), (Start: 2 @65441 has 1 MA's), (3, 65420), (4, 65399), (5, 65396), (6, 65360),

Gene: Tres_87 Start: 65309, Stop: 65163, Start Num: 1
Candidate Starts for Tres_87:
(Start: 1 @65309 has 30 MA's), (Start: 2 @65294 has 1 MA's), (3, 65273), (4, 65252), (5, 65249), (6, 65213),

Gene: West99_87 Start: 65479, Stop: 65333, Start Num: 1
Candidate Starts for West99_87:
(Start: 1 @65479 has 30 MA's), (Start: 2 @65464 has 1 MA's), (3, 65443), (4, 65422), (5, 65419), (6, 65383),