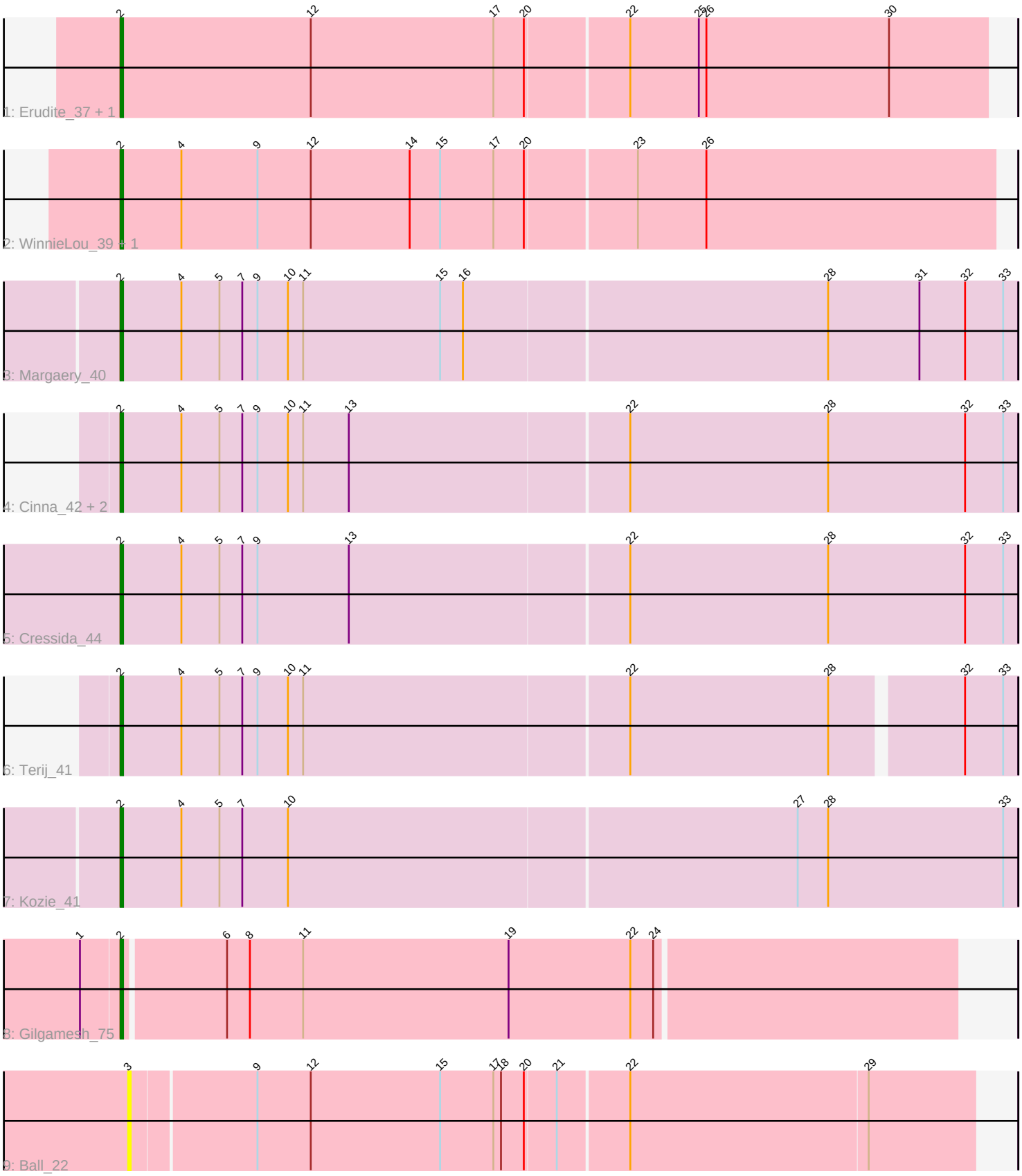
Pham 329590


2
12
17
20
22
25
26
30
1: Erudite_37 + 1
2
4
9
12
14
15
17
20
23
26
2: WinnieLou_39 + 1
2
4
5
7
9
10
11
15
16
28
31
32
33
3: Margaery_40
2
4
5
7
9
10
11
13
22
28
32
33
4: Cinna_42 + 2
2
4
5
7
9
13
22
28
32
33
5: Cressida_44
2
4
5
7
9
10
11
22
28
32
33
6: Terij_41
2
4
5
7
10
27
28
33
7: Kozie_41
1
2
6
8
11
19
22
24
8: Gilgamesh_75
3
9
12
15
17
18
20
21
22
29
9: Ball_22

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 329590 Report

This analysis was run 09/05/26 on database version 662.

Pham number 329590 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Erudite_37, Dauntless_37
• Track 2 : WinnieLou_39, Hager_39
• Track 3 : Margaery_40
• Track 4 : Cinna_42, MementoMori_43, Matzah_43
• Track 5 : Cressida_44
• Track 6 : Terij_41
• Track 7 : Kozie_41
• Track 8 : Gilgamesh_75
• Track 9 : Ball_22

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 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Cinna_42, Cressida_44, Dauntless_37, Erudite_37, Gilgamesh_75, Hager_39, Kozie_41, Margaery_40, Matzah_43, MementoMori_43, Terij_41, WinnieLou_39,

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

Genes that do not have the "Most Annotated" start:
• Ball_22,

Summary by start number:

Start 2:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 11 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cinna_42 (EI), Cressida_44 (EI), Dauntless_37 (EF), Erudite_37 (EF), Gilgamesh_75 (singleton), Hager_39 (EF), Kozie_41 (EI), Margaery_40 (EI), Matzah_43 (EI), MementoMori_43 (EI), Terij_41

(EI), WinnieLou_39 (EF),

Start 3:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ball_22 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, EF, EI,

Info for manual annotations of cluster EF:
•Start number 2 was manually annotated 3 times for cluster EF.

Info for manual annotations of cluster EI:
•Start number 2 was manually annotated 7 times for cluster EI.

Gene Information:

Gene: Ball_22 Start: 18509, Stop: 18835, Start Num: 3
Candidate Starts for Ball_22:
(3, 18509), (9, 18557), (12, 18578), (15, 18629), (17, 18650), (18, 18653), (20, 18662), (21, 18674), (22, 18701), (29, 18794),

Gene: Cinna_42 Start: 32069, Stop: 32419, Start Num: 2
Candidate Starts for Cinna_42:
(Start: 2 @32069 has 11 MA's), (4, 32093), (5, 32108), (7, 32117), (9, 32123), (10, 32135), (11, 32141), (13, 32159), (22, 32267), (28, 32345), (32, 32399), (33, 32414),

Gene: Cressida_44 Start: 31537, Stop: 31887, Start Num: 2
Candidate Starts for Cressida_44:
(Start: 2 @31537 has 11 MA's), (4, 31561), (5, 31576), (7, 31585), (9, 31591), (13, 31627), (22, 31735), (28, 31813), (32, 31867), (33, 31882),

Gene: Dauntless_37 Start: 24444, Stop: 24782, Start Num: 2
Candidate Starts for Dauntless_37:
(Start: 2 @24444 has 11 MA's), (12, 24519), (17, 24591), (20, 24603), (22, 24642), (25, 24669), (26, 24672), (30, 24744),

Gene: Erudite_37 Start: 24444, Stop: 24782, Start Num: 2
Candidate Starts for Erudite_37:
(Start: 2 @24444 has 11 MA's), (12, 24519), (17, 24591), (20, 24603), (22, 24642), (25, 24669), (26, 24672), (30, 24744),

Gene: Gilgamesh_75 Start: 70806, Stop: 71129, Start Num: 2
Candidate Starts for Gilgamesh_75:
(1, 70791), (Start: 2 @70806 has 11 MA's), (6, 70845), (8, 70854), (11, 70875), (19, 70956), (22, 71004), (24, 71013),

Gene: Hager_39 Start: 24364, Stop: 24705, Start Num: 2

Candidate Starts for Hager_39:
(Start: 2 @24364 has 11 MA's), (4, 24388), (9, 24418), (12, 24439), (14, 24478), (15, 24490), (17, 24511), (20, 24523), (23, 24565), (26, 24592),

Gene: Kozie_41 Start: 31141, Stop: 31491, Start Num: 2
Candidate Starts for Kozie_41:
(Start: 2 @31141 has 11 MA's), (4, 31165), (5, 31180), (7, 31189), (10, 31207), (27, 31405), (28, 31417), (33, 31486),

Gene: Margaery_40 Start: 30916, Stop: 31266, Start Num: 2
Candidate Starts for Margaery_40:
(Start: 2 @30916 has 11 MA's), (4, 30940), (5, 30955), (7, 30964), (9, 30970), (10, 30982), (11, 30988), (15, 31042), (16, 31051), (28, 31192), (31, 31228), (32, 31246), (33, 31261),

Gene: Matzah_43 Start: 32009, Stop: 32359, Start Num: 2
Candidate Starts for Matzah_43:
(Start: 2 @32009 has 11 MA's), (4, 32033), (5, 32048), (7, 32057), (9, 32063), (10, 32075), (11, 32081), (13, 32099), (22, 32207), (28, 32285), (32, 32339), (33, 32354),

Gene: MementoMori_43 Start: 31757, Stop: 32107, Start Num: 2
Candidate Starts for MementoMori_43:
(Start: 2 @31757 has 11 MA's), (4, 31781), (5, 31796), (7, 31805), (9, 31811), (10, 31823), (11, 31829), (13, 31847), (22, 31955), (28, 32033), (32, 32087), (33, 32102),

Gene: Terij_41 Start: 30364, Stop: 30708, Start Num: 2
Candidate Starts for Terij_41:
(Start: 2 @30364 has 11 MA's), (4, 30388), (5, 30403), (7, 30412), (9, 30418), (10, 30430), (11, 30436), (22, 30562), (28, 30640), (32, 30688), (33, 30703),

Gene: WinnieLou_39 Start: 24433, Stop: 24774, Start Num: 2
Candidate Starts for WinnieLou_39:
(Start: 2 @24433 has 11 MA's), (4, 24457), (9, 24487), (12, 24508), (14, 24547), (15, 24559), (17, 24580), (20, 24592), (23, 24634), (26, 24661),